

Figure 1

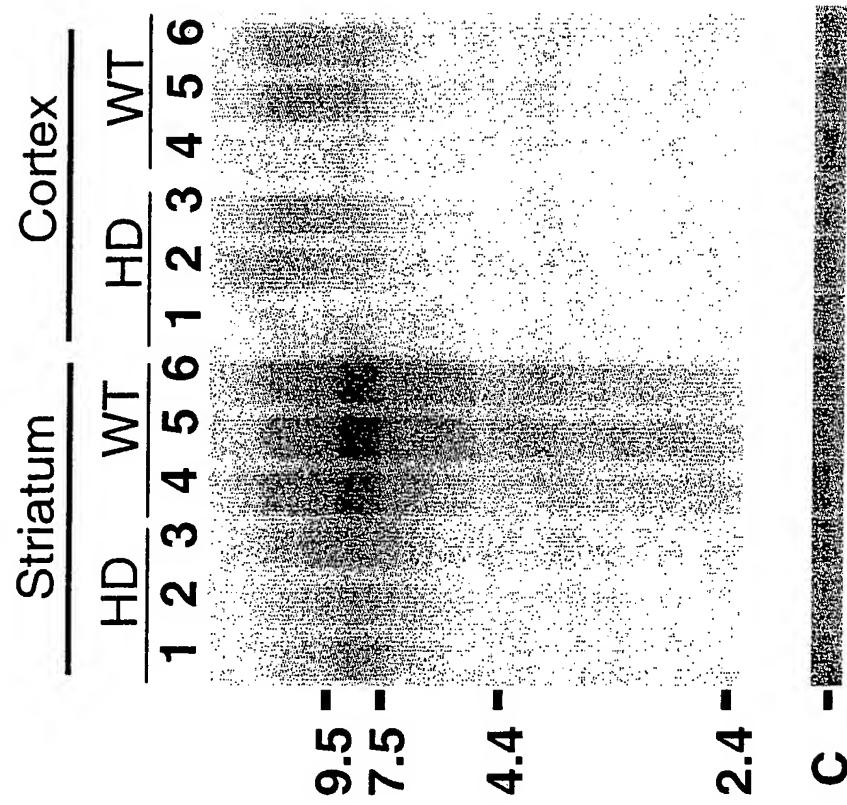


Figure 2

Figure 3

1 TGTATGGAA TAGTGTTC ATATGATCTG TTGTCTGGAG TATATGCTAC ATGTTCATTT  
ACATACCCCTT ATCACAAAGG TATACTAGAC AACAGACCTC ATATACGATG TACAAGTAAA  
H01

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61 AACTGTACAAA AACCCAGTGC AGCTGATGAT GCAAAGCAGT CTCTCTCTGT GTACAGTGCC  
TGACATGTTT TTGGGTCACTG TCGACTACTA CGTTTGTCA GAGAGAGACA CATGTCACGG

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121 CCACCTATT AAAAATCAGC TACAASCCA GAACACTGTG AAACACTTAA CATAAGAAC  
GGTGGATAAA TTTTAGTGC ATGTTSGGGT CTTGTGACAC TTTGTGAATT GTATTCTTG  
H02

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181 AAACGCAGCG TCTGGATTCT TTCCAAGGAG AGCAGCTTTC TCCACAGGAA CACAGTAACA  
TTTGCCTCGC AGACCTAAGA AAGGTTCTC TCGTCGAAAG AGGTGTCCTT GTGTCATTGT

---

241 AAAGAGGTCC GCCGCCATCC ACACCCAGCC AAGACACCTC AGAGGCCATA GGGACAAACCT  
TTTCTCCAGG CGGCGGTAGG TGTGGGTGG TTCTGTGGAG TCTCCGGTAT CCTGTTGGA

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301 CCTTGCTGGC CAACACCTGC TGAGCAGGG CACAGGTCCC AGCAACTGAT CCTCAGTGGA  
GGAACGACCG GTTGTGGACG ACCTCGTCCC GTGTCCAGGG TCGTTGACTA GGAGTCACCT

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361 TGGGTCCGCA GTCAAAGCCT TAATGGGCTC TCTTTGAAG GGGAAAGAAA KWTTTCAAGC  
ACCCAGGCCT CAGTTCCGGA ATTACCCGAG AGAAAACCTC CCCCTTCTTT MWAAAGTCG

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421 TTATGATATC CAACATTATT ATAGTTGATG AGTTAGTAAA TTCCGAAAAA AAAA  
AATACTATAG GTTGTAAATAA TATCAACTAC TCAATCATT AAGGCTTTT TTTT

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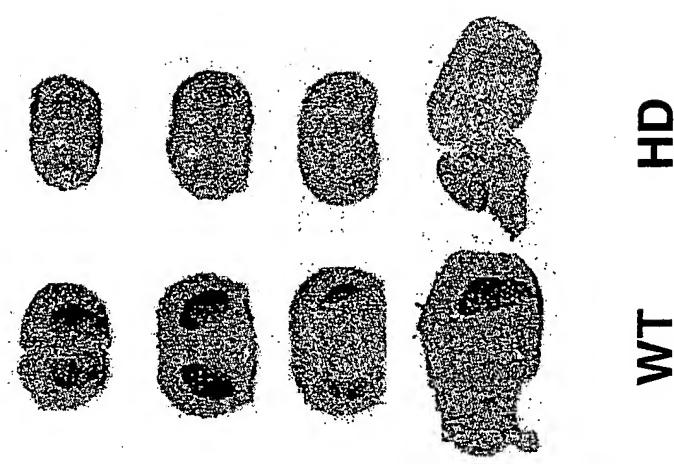


Figure 4

Figure 5

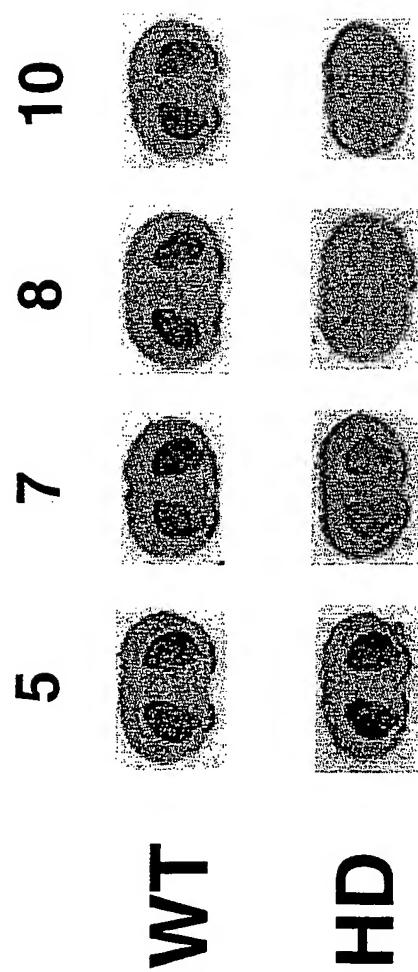
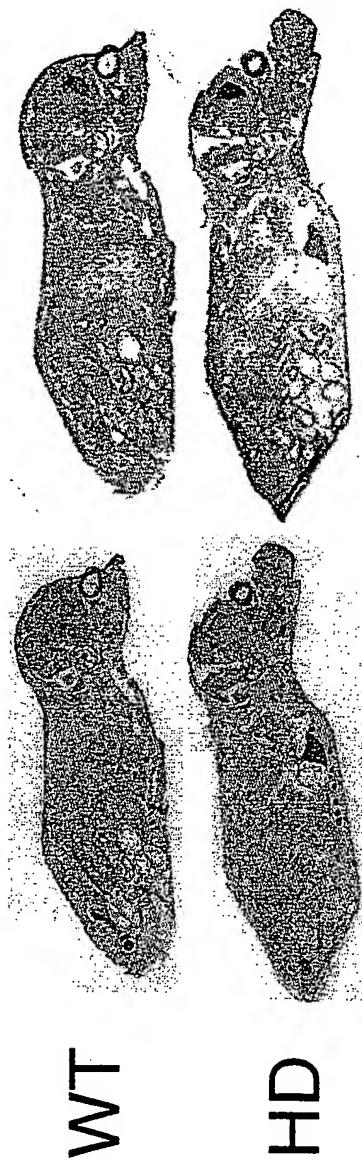


Figure 6



WT

HD

Figure 7

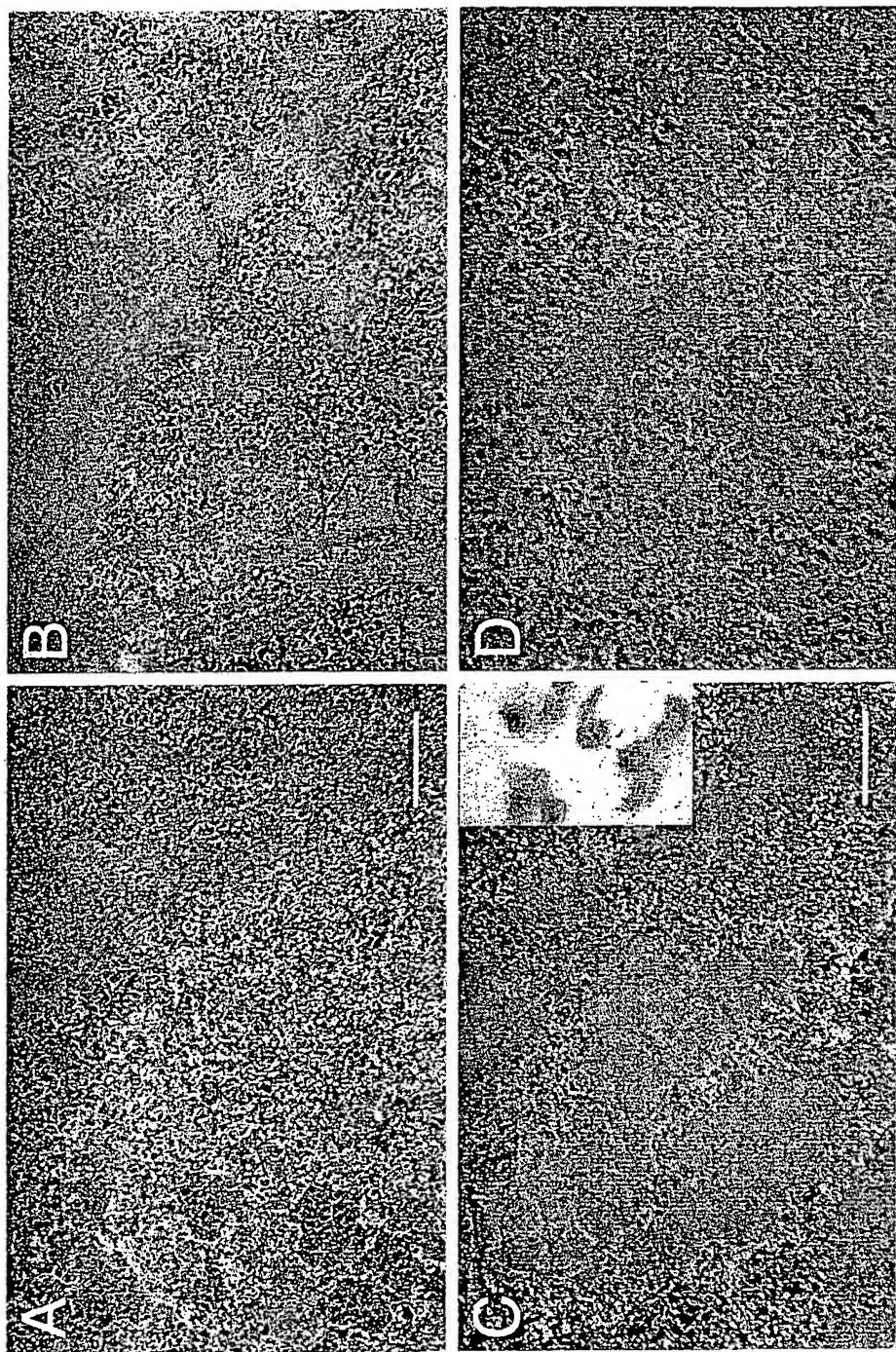
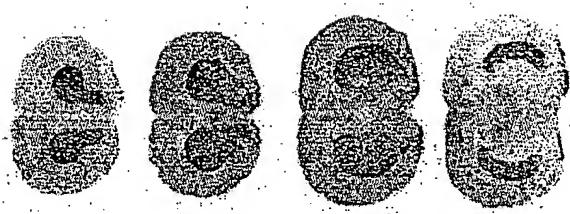


Figure 8



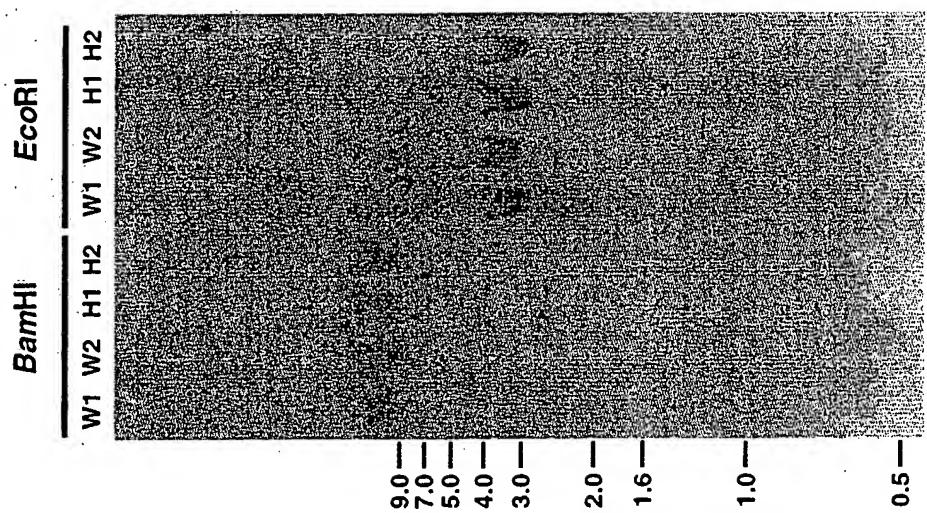


Figure 9

Figure 10

1	CACTGAAGCT	GGTCCACGTC	TATAAACAGG	TGACACTGGC	TGCAGCAAAA	AGCCATTGCA	GTGACTTCGA	CCAGGTGCGAG	ATATTTGTCC	ACTGTGACCG	ACGTCGTTT	TCGGTAAGCT
61	TCCACACAAA	TTGATCTTCT	ATCATCTTGG	AATCTGAATT	GCAGGGAGGA	GCAGTATGTA	AGGTGTGTTT	AACTAGAAGA	TAGTAGAAC	TTAGACTTAA	CGTCCTCCCT	CGTCATACAT
121	AGACGACCGT	TTAATTCAAGG	CATTCCGAAG	GCATGAGCGC	ATGGATTCTG	TCACCAAGCG	TCTGCTGGCA	ATTAAGTCC	GTAAGGCTTC	CGTACTCGCG	TACCTAAGAC	AGTGGTTCGC
181	TATAAAAGGA	CCCTGGCATT	GGGAAACCTA	TGACGGACTG	TTTTGCTGT	AGAAGTAGGG	ATATTTCCCT	GGGACCGTAA	CCCTTGGAT	ACTGCCTGAC	AAAAACGACA	TCTTCATCCC
241	ATTTTACAGA	AGTCTCCCTG	AATTTGCCCT	GCCTGGGCA	GTTTGCAGA	GGAACCTGCC	TAAAATGTCT	TCAGAGGAAC	TTAACACGGG	CGGACCCGT	AAAACGTCT	CCTTGGACGG
301	AGAGATTTAT	TGGCTGGTCA	GTCTCTGTG	AAATAGTATC	ATGTGAGAAA	CAGTTGTAG	TCTCTAAATA	ACCGACCAGT	CAGAGAACAC	TTTATCATAG	TACACTCTT	GTCAAACATC
361	AAAAAAAACTA	TACCTGGGAA	GACCTTGCA	ACATTGTTCC	TTCCATGGGC	CAAGACTCAG	TTTTTTGAT	ATGGACCCCT	CTGAAACGT	TGTAACAAGG	AAGGTACCCG	GTTCTGAGTC
421	TTAGGAGGCA	AAATCTGCC	CGGAATAAAC	TAGGCCAGGA	TACAGCCATG	TTTAGTTAAT	AATCCTCCGT	ATTTAGACGG	GCCTTATTTG	ATCCGGTCT	ATGTCGGTAC	AAATCAATTA
481	AATTGGTTT	TAGAATTACAC	ACAGGCAGGA	TTGGTTTTT	TGTGTCTTGG	CAAGTGGAGC	TTAAACCAAA	ATCTTAAGTG	TGTCCTGCCT	AACCAAAAAA	ACACAGAAC	GTTCACCTCG
541	ATATTTAACAC	TACAGGCATG	GGAAATCCTGC	CTCTTAGCTT	TTCCACCCCT	CTTGTCTCAC	TATAAATTGT	ATGTCGTAC	CCTTAGGACG	GAGAATCGAA	AAGGGTGGGA	GAACAGAGTG
601	CAAGTTTTT	CTCTCCAAAG	GTTCAGGA	ATTTCTCATT	AATGGCTGAT	GCAAACCTAG	GTTCAAAAAA	GAGAGGTTTC	CAAAGAGTAA	TTACCGACTA	CGTTGAATC	
661	TGAATAATAA	TGAATATAAA	CAATGCTCAC	CTCACAAAAA	TTATATTATT	TGCAGTCATT	ACTTATTATT	ACTTATATTT	GTTACGAGTG	GAGTGGTTT	AATATAATAA	ACGTCAGTAA
721	TGTGATAACA	CAAATTTAT	CGCAATGGTT	ATTATTTAAT	TTGGGCCAC	ACACTGTGGT	ACACTATTGT	GTAAATTTAAT	GCCTTACCAA	TAATAAATTA	AACACCGGTG	TGTGACACCA
781	TATCTTTGT	TGTGGTTGTT	TCTGAGAAAA	TGTTCTTGG	TATGTAAGTG	CCAATACCAAG	ATAGAAAACA	ACACCAACAA	AGACTCTTT	ACAAGAACCT	ATACATTCAC	GGTTATGGTC
841	TGTGAAGTAT	TGATCCCCGG	CAGCAAAATA	CAGCCTAAGG	TTTGTAAACA	TCAATTCTAT	ACACTTCATA	ACTAGGGCCC	GTCGTTTTAT	GTCGGATTCC	AAACATTGT	AGTTAAGATA
901	CTCAGTTCAT	CAGAGGGCCT	GAGAAGCTGC	GGGGCAGTGT	AAAGTAAAGT	ATGCTGGGCT	GAGTCAGTA	GTCTCCCGGA	CTCTCGACG	CCCCGTACAC	TTTCATTTCA	TACGACCCGA
961	GGTGGTGGTC	AGCCTCCCGC	CTGAAGAGTG	ACCACTGCTG	GCCCCACGGG	TCGCTGAGAT	CCACCAACAG	TCGGAGGGCG	GACTTCTCAC	TGGTCACGAC	CGGGCTGCCT	AGCGACTCTA
1021	ATTCTCCCAT	AATGGCAAAA	AAATAGGCAG	TTTGATGTGA	CCTGTTTAGT	GTGGCTCTCC	TAAGAGGGTA	TTACCGTTT	TTTATCCGT	AAACTACACT	GGACAAATCA	CACCGAGAGG
1081	TCTTTGAGC	ATGTGTTAGC	ATTTTATTT	TATACCTAC	CAGTGAAC	TGCTCTTCCA	AGAAAACCTG	TACACAATCG	AAAAAATAAA	ATATGAGTAG	GTCACCTGAG	ACGAGAAGGT
1141	AGTGTGTTCA	TGTATGTGCT	AGATATATTA	GCACAGCTG	CCTCTGCTG	CACAACGCCT	TCACACAAAGT	ACATACACGA	TCTATATAAT	CGTGTGGAC	GGAAGACGAC	GTGTTGCGGA
1201	TAGAGACCCG	GCCTTCAAT	GAGCTTAGCT	TGTGCTCTGT	TTCTGCTCTC	TTAGGTCTAA	ATCTCTGGGC	CGGAAAGTTA	CTCGAATCGA	ACACGAGACA	AAGACGAGAG	AATCCAGATT

Figure 10 (cont.)

1261	ACTATGGTGT CAGTTTAAT AGAACAAAAG TATGCATCTT GCCTTGGCTT GAGCCTTTTC TGATACCACA GTCAAAATTA TCTTGTTC ATACGTAGAA CGGAACCGAA CTCGGAAAAG
1321	GTTCATG CTGACTTCTC CCCTTCTCT CCTGTGCTCA CCTTACCTT CCAGAGTGT CAAAAGTTAC GACTGAAGAG GGGAAAGAGA GGACACGAGT GGAATGGAAA GGTCTCACAT
1381	AGGGACAAC TTTAAGGAGG CGTGTCCCTG GTAGGGGCAT CCCTGTCAC CAGGTGCCTG TCCCTGTTGA AAATTCTCC GCACAGGGAC CATCCCCGA GGGACAAGTG GTCCACGGAC
1441	TCATCACCCC ACTTGACTGA CATCTACCC GGTGACTATG GTTGCCTCTT GTTTGTAGGG AGTAGTGGGG TGAACGTACT GTAGATGGGA CCAACTGATAC CAAAGGAGAA CAAACATCCC
1501	AACGGTGGCT CCAGGTGGAG GCATCAATCT GTTGGGTTCT GTTCCCGGC TGCCCTTGGT TTGCCACCGA GGTCCACCTC CGTAGTTAGA CAACCCAAGA CCAAGGGCCG ACGGAAACCA
1561	TTGAAAGTC TCTTCTCTGT ATATTCTAC CCTGCATTG CTTGTGTGG TGCTGATGCT AAACTTCAG AGAAGAGACA TATAAGGATG GGACGTAAAC GAAACACACC ACGACTACGA
1621	GTGCGCAGTA GGATTCTTGG ATGACTCTCC ATCACTACA GACTCCCCCT GTTGCAAAGT CACCGCTCAT CCTAAGAACCC TACTGAGAGG TAGTCAGTGT CTGAGGGGGAA CAACGTTCA
1681	GTCAGGCTGA CTCGACAGTC ACCGTAACCT CTGAGTCAGT CACACACAGG CTGTCAGCCA CAGTCCGACT GAGCTGTCAG TGGCATTAA GACTCAGTCA GTGTGTGTCC GACAGTCGGT
1741	CGGCTCCAC TTGCATGGCT ATTCTATTT CACACGTGAG TTTCTGTTGC TGGCTGGCTG GCCGAAGGTG AACGTACCGA TAAGATAAAA GTGTGCACTC AAAGACAACG ACCGACCGAC
1801	ACTGGCATTAA TCTATGCTAA GTTGAATCA GGAGTGCCA GCAGAGGCCA TCATTCTCAC TGACCGTAAT AGATACGATT CAACTTTAGT CCTCACGGGT CGTCTCGGGT AGTAAGAGTG
1861	TGTCTTGAA ACAAAAGCTGT ACGGTTTGTAT CGATGAACGT ATTAAAGCA TTTCATGCAA ACAGAAACTT TGTTCGACA TGCCAAACTA GCTACTGCA TAAATTCTGT AAAGTACGTT
1921	TGACAAAGTG CTCAGTAGTG GAAGGCAGGC TGTGACCAGT CTGCTGCTC CTTACTATAA ACTGTTTCAC GAGTCATCAC CTTCCGTCCG ACACTGGTCA GACGGACGAG GAATGATATT
1981	TTGTGAGGAT TTGTTACTGG AACAGTACAT GGAGGCCTGA CCTTGTGGGG GCACAGGGTG AACACTCCTA ACAATGACC TTGTATGTA CCTCCGGACT GGAACACCCC CGTGTCCAC
2041	GAACCTTAGC TGAATATAGT GTGTGCTCA AGAGGAAGTC AGGGTACTAG CTCAGTGCTC CTTGAATCG ACTTATATCA CACACAGAT TCTCCTTCAG TCCCAGTATC GAGTCACGAG
2101	AATCTCCAGG TACTATATAT ACATTGCCC GTTTATCTC TAATGTGAAA TAAATCCCCA TTAGAGGTCC ATGATATATA TGTAACGGG CAAAATAGAG ATTACACTTT ATTTAGGGGT
2161	AACACTTGTT TATCGTGTAG CGTACCTAAA AGACTATTCT ATTATGGGTG TCCCCACTTT TTGTGAACAA ATAGCACATC GCATGGATT TCTGATAAGA TAATACCCAC AGGGGTGAAA
2221	CTTGGTTGG TCACCCCGAT CCCCCGGTCT TCTGCTGTAT CTAGAACAGT GACTATAAAT GAACCAAACC AGTGGGGCTA GGGGGCCAGA AGACGACATA GATCTGTCA CTGATATTAA
2281	GATGTATGGG AATAGTGTCTT CCATATGATC TGTGTCTGG AGTATATGCT ACATGTTCAA CTACATACCC TTATCACAAA GGTATACTAG ACAACAGACC TCATATACGA TGTACAAGTT
2341	TTACTGTACA AAAACCCAGT GCAGCTGATG ATGCAAAGCA GTCTCTCT GTGTACAGTG AATGACATGT TTTGGGTCA CGTCGACTAC TACGTTCTGT CAGAGAGAGA CACATGTCA
2401	CCCCACCTAT TTAAAATCA CGTACAASCC CAGAACACTG TGAAACACTT AACATAAGAA GGGGTGGATA AATTTTTAGT GCATGTTSGG GTCTGTGAC ACTTTGTGAA TTGTATTCTT
2461	CAAACGCAGC GTCTGGATTC TTTCCAAGGA GAGCAGCTT CTCCACAGGA ACACAGTAAC GTTTGCCTCG CAGACCTAAG AAAGGTTCT CTCGTCAGAA GAGGTGTCTT TGTGTCAATTG

**Figure 10 (cont.)**

2521	AAAAGAGGTC CGCCGCCATC CACACCCAGC CAAGACACCT CAGAGGCCAT AGGGACAACC TTTTCTCCAG GCGGCGGTAG GTGTGGGTCG GTTCTGTGGA GTCTCCGGTA TCCCTGTTGG
2581	TCCTTGCTGG CCAACACCTG CTGGAGCAGG GGCACAGGTC CCAGCAACTG ATCCTCAGTG AGGAACGACC GGTTGTGGAC GACCTCGTCC CCGTGTCCAG GGTCGTTGAC TAGGAGTCAC
2641	GATGGGTCCG CAGTCAAAGC CTTAATGGGC TCTCTTTGA AGGGGAAAGA AAGAATTCA CTACCCAGGC GTCAGTTCG GAATTACCCG AGAGAAAACT TCCCCTTCT TTCTTAAAGT
2701	AGCTTATGAT ATCCAACATT ATTATAGTTG ATGAGTTAGT AAATTCCAAA AAAAAAAGAT TCGAATACTA TAGGTTGTA TAATATCAAC TACTCAATCA TTTAAGGTTT TTTTTTCTA
2761	GATTTTATAT GTATGACATA AAAAAAATCT TTGTAAAGTG CGCAAGTGCA ATAATTAAA CTAAAATATA CATACTGTAT TTTTTTAGA AACATTTCAC GCGTTCACGT TATTAAATT
2821	GAGGTCTTAT CTTTGCATTT ATAATTATA AATATTGTAC ATGTGTGTAA TTTTCATGT CTCCAGAATA GAAACGTAAA TATTTAATAT TTATAACATG TACACACATT AAAAAAGTACA
2881	ATTCATTTGC AGTCTTGTAA TTTAAAAAAA CTTTACTGTT ATGTTTGTAT AATAGAACAT TAAGTAAACG TCAGAACAT AAATTTTTT GAAATGACAA TACAAACATA TTATCTTGTAA
2941	TAATCATTAA TTATAACTCA GACAAGGTGT AAATAAATTC ATAATTCAAA CAGCCAGTAT ATTAGTAAAT AATATTGAGT CTGTTCCACA TTTATTTAAG TATTAAGTTT GTCGGTCTA
3001	ATATGCATAT ATGGGTGTTA CATTGCAAA ATCTCTATCT TTGTCTTATT CACATGCTTA TATACGTATA TACCCACAAT GTAACGTTTT TAGAGATAGA AACAGATAA GTGTACGAAT
3061	AAGAAGTAAG AAATCTTTG TGGATATGTA ATTATACATA TAAAGTATAT ATATATGTAT TTCTTCATTC TTTAGAAAAC ACCTATACAT TAATATGTAT ATTCATATA TATATACATA
3121	GATACATGAA ATATATTAG AAATGTTCAT AATTTTAATG GATATTCTTT GGTGTGAATA CTATGTACTT TATATAAATC TTTACAAGTA TTAAATTAC CTATAAGAAA CCACACTTAT
3181	ATTGAATACA ACATTTTAA AATGAAAAAA AAAAAAAA AAAAAAAA AAAAAA TAACTTATGT TGTAAGAATT TTACTTTTT TTTTTTTTT TTTTTTTTT TTTTTT



Figure 11

3236 bp

Figure 12

1	AAGTGTAAAT AAAATAAACA TCTAATAAAA AAAATTACAT ACCATAGAGG AACAGATAA TTCACATTG TTTTATTGT AGATTATTT TTTAATGTA TGGTATCTCC TTGTTCTATT
61	TTCTGCCCA ACTTCATACC CTCCAGCGTA TAGTGTGAG GTTGGCTG TTGCTGTGTA AAAGACGGGT TGAAGTATGG GAGGTCGCAT ATCACAACTC CAAACCAGAC AACGACACAT
121	TTGTAATGTA ATGTTAAATT CTCTACCTGA AGGTCTAGGC CTACAAGTGA ATTCTCATGT AACATTACAT TACAATTAA GAGATGGACT TCCAGATCCG GATGTTCACT TAAGAGTACA
181	TTATAGAGTT TTGTTGTGCA AACCTTGTTC CTTAATTAA AACTATGGTT AAAAAACAAA AATATCTCAA ACAACACGT TTGGAACAAG GAATTAAATT TTGATACCAA TTTTTGTTT
241	ACAAAATGG CTACAGCCAA TAACTGAAGG GGGTTACCTT GTTGAAGGGG TGGAAAAGAG TGTTTGACC GATGTCGTT ATTGACTTCC CCCAATGAA CAACCTCCCC ACCTTTCTC
301	AGAGGAGGAA GAAGGGAGTT CAAGAGAAGG AGAAGAACAA GAGGAGAGGA GGAAGCTGCC TCTCCTCCTT CTTCCCTCAA GTTCTCTTCC TCTTCTTGTGTT CTCCCTCCTT CCTTCGACGG
361	ACGAGGGAG ATGGGCCATG AGAACCTGGC CAGGAGAAAT AGCCAGTATC TGGAGTACAC TGCTCCCCCTC TACCCGGTAC TCTTGAACCG GTCCTCTTA TCGGTACAG ACCTCATGTG
421	CACTGAGGAG GTAGCCAGGC TAGCAGTTAG AAGAGTAGAT TAGGGTTAT TTTCCCCCA GTGACTCCTC CATCGGTCCG ATCGTCAATC TTCTCATCTA ATCCCCAATA AAAAGGGGGT
481	CTCCACATAG TTATCAAAGC CAAATAAAAT AACCATAGTC TGAGTCTCAT CTATTTGTA GAGGTGTATC AATAGTTCG GTTATTAA TTGGAATCAG ACTCAGAGTA GATAAACATT
541	GCTAGTTGGG TATAAGATTA ATTTGGCTGT ACTACAGTT AGATTCTAA CATAGGAAC CGATCAACCC ATATTCTAAT TAAACCGACA TGATGTCAA TCTAAAGATT GTATCCTTGA
601	ATCAAAACT TGCTCAAACA AGAACATGCT GACAATATT TAAATGATT ATTTATATTG TAGTTTTGA ACGAGTTGT TCTTGTACGA CTGTTATAAA ATTTACTAA TAAATATAAC
661	TTTGCACCTT CTAAAGTTT TTCTAAATGT TCCATGGTCA AATTAAAAAA TATACATATT AAACGTGAA GATTTCAAAG AAGATTACA AGGTACCAAGT TTAATTTTT ATATGTATAA
721	GGCTATTAAA TTCTGCTAAG TGGGGCTGGA GAGATAGCTC AGAGGTTAAG AGCACTGACT CCGATAATT TAAAGCAGATTC ACCCCGACCT CTCTATCGAG TCTCCAATTC TCGTGAATG
781	GCTCTCCAG AGGTCTGAG TTCAATTCCC AGCGACCAAGA TGGTGGCTCA CAGCCATCTG CGAGAAGGTC TCCAGGACTC AAGTTAAGGG TCGCTGGTGT ACCACCGAGT GTCGGTAGAC
841	TAATAGATAG GATCTGACGC CCTCTTCTGG AGTGTCTGAA GACAGCTACA ATGTACTCAT ATTATCTATC CTAGACTGCG GGAGAAGACC TCACAGACTT CTGTCGATGT TACATGAGTA
901	ATATATTAAA TAAATAATAT TAGAAAATTC TTCTAAGTGT ATCATTTATA GAATATTAA TATATAATT ATTATTATA ATCTTTAAG AAGATTACA TAGTAAATAT CTTATAAATT
961	TATATAAAAGT AAATGCCCTCA GGAAATATAA ACTTGGATT AAATCAAAGA ACTTCATGAG ATATATTCTA TTTACGGAGT CCTTTATATT TGAACCTTAA TTTAGTTCT TGAAGTACTC
1021	TAGTGGCCA CAAAAAATGT GTACCAAGGGG AAGACCGGAG GGAGGGAGA AGGAAGGGAT ATCACCCGGT GTTTTTACA CATGGTCCCC TTCTGGCCTC CCTCCCTCTT CCCTTCCCTA
1081	GGAGATAGAA TTTTGCCTCT GCATTCTTG GGCTGGCACA GGTATAATGC TGTGGAAATT CCTCTATCTT AAAACGGAGA CGTAAGGAAC CCGACCGTGT CCATATTACG ACACCCCTAA
1141	GGGAAACTAC AAGGAAGCTG CAAAGCTGGG CGGAACCTCGT TTCCGCAAGC TGGGCTCATC CCCTTGATG TTCTTCGAC GTTTCGACCC GCCTTGAGCA AAGGCGTTCG ACCCGAGTAG
1201	TAAGTGTCCA TGCATGGCTG CCACACTGCA GTGAACTTTA AAACATTGT GTTCCAGAGA ATTACAGGT ACGTACCGAC GGTGTGACGT CACTTGAAAT TTTGAAACA CAAGGTCTCT

Figure 12 (cont.)

1261	TGTAGAGATG CTCACAATAG TACAAAGGCG GGAGGGAGGT ATTTCCAGAC TAAGAGGAAG ACATCTCTAC GAGTGTATC ATGTTCCGC CCTCCCTCCA TAAAGGTCTG ATTCTCCTTC
1321	AAAAAACATT GCTGATTAAG CATCTGCATA TGAGGCACCC CACCTCCATA CACACACACA TTTTGGTAA CGACTAATTT GTAGACGTAT ACTCGCGGG GTGGAGGTAT GTGTGTGTGT
1381	CACACACACA CACACACACA CAACCAAACA GAACAAATAC ACATGCATGT .CTACAGCCTG GTGTGTGTGT GTGGTTGTGT CTTGTTATG TGTACGTACA GATGTCGGAC
1441	CAGGAACAAA ATGGTATGTC TGTGAGGAAC CAGGAGATGC ACAGGTCTA ACCTCTGTCT GTCCTGTT TACCATACAG ACACTCCTTG GTCTCTACG TGTCCAGGAT TGGAGACAGA
1501	CCTACAAGCC CTGAAGTCTG GTCAGGGTCA AATGTACAAA AGCAGGGCTAA GGAAGCTGTT GGATGTCGG GACTTCAGAC CAGTCCCAGT TTACATGTT TCGTCCGATT CCTTCGACAA
1561	TAGTGAAGA TTTTTTCTT CAACTCTAGG AACAACCTAT TTCTCTAGGAT TTGGAGAGTG ATCACTTTCTT AAAAAAAGAA GTTGAGATCC TTGTTGGATA AAGGATCCTA AACCTCTCAC
1621	CTCAGGAGGA AACATTCTAGA CAACTGATGC TCTCTGTGTA CCCAGATTC AGGTATTGGG GAGTCCTCCT TTGTAAGTCT GTTGACTACG AGAGACACAT GGGGCTAAG TCCATAACCC
1681	GTAGTTAGTT GTGCTCATGT ATGTGCTAGA TATATTAGCA CAGCCTGCCT TCTGCTGCAC CATCAATCAA CACGAGTACA TACACGATCT ATATAATCGT GTCGGACGGA AGACGACGTG
1741	AACGCCCTAG AGACCCGGCC TTTCAATGAG CTTAGCTTGT GCTCTGTTTC TGCTCTCTTA TTGCGGAATC TCTGGGCCGG AAAGTTACTC GAATCGAACAC CGAGACAAAG ACGAGAGAAAT
1801	GGTCTAAACT ATGGTGTCAAG TTTTAATAGA ACAAAAGTAT GCATCTGCC TTGGCTTGAG CCAGATTGAA TACCACAGTC AAAATTATCT TGTGTTCTATA CGTAGAACGG AACCGAACTC
1861	CCTTTCTGTT TTCAATGCTG ACTTCTCCCCC TTTCTCTCCT GTGCTCACCT TACCTTTCCA GGAAAAGCAA AAGTTACGAC TGAAGAGGGG AAAGAGAGGA CACGAGTGGAA ATGGAAAGGT
1921	GAGTGTAAAGG GACAACCTTT AAGGAGGCCT GTCCCTGGTA GGGGCATCCC TGTTCACCAAG CTCACATTCC CTGTTGAAAA TTCCCTCCGCA CAGGGACCAT CCCCCGTAGGG ACAAGTGGTC
1981	GTGCTGTCA TCACCCCACT TGACTGACAT CTACCCCTGGT GACTATGGGT TCCCTCTGTT CACGGACAGT AGTGGGGTGA ACTGACTGTA GATGGGACCA CTGATACCCA AGGAGAACAA
2041	TGTAGGAAAC GGTGGCTCCA GGTGGAGGCA TCAATCTGTT GGGTTCTGGT TCCCGGCTGC ACATCCCTTG CCACCGAGGT CCACCTCCGT AGTTAGACAA CCCAAGACCA AGGGCCGACG
2101	CTTTGGTTTT GAAAGTCTCT TCTCTGTATA TTCTTACCT GCATTGCTT TGTGTGGTGC GAAACCAAAA CTTCAGAGA AGAGACATAT AAGGATGGGA CGTAAACGAA ACACACCACG
2161	TGATGCTGTG CGCAGCAGGA TTCTTGGATG ACTCTCCATC AGTCACAGAC TCCCCCTGTT ACTACGACAC GCGTCGTCTT AAGAACCTAC TGAGAGGTAG TCAGTGTCTG AGGGGGACAA
2221	GCAAAGTGTG AGGCTGACTC GACAGTCACC GTAAAATCTG AGTCAGTCAC ACACAGGCTG CGTTTCACAG TCCGACTGAG CTGTCAGTGG CATTAGAC TCAGTCAGTG TGTGTCCGAC
2281	TCAGGCCACGG CTTCCACTTG CATGGCTATT CTATTTCTAC ACGTGAGTTT CTGTTGCTGG AGTCGGTGCC GAAGGTGAAC GTACCGATAA GATAAAAGTG TGCACCTAAA GACAACGACC
2341	CTGGCTGACT GGCATTATCT ATGCTAAGTT GAAATCAGGG GTGCCAGCA GAGCCCATCA GACCGACTGA CCGTAATAGA TACGATTCAA CTTAGTCCC CACGGGTGCT CTCGGGTAGT
2401	TTCTCACTGT CTTGAAACA AAGCTGTACG GTTGATCGA TGAACGTATT TAAAGCATT AAGAGTGTACA GAAACTTTGT TTGACATGC CAAACTAGCT ACTTGCTAA ATTTCGTAAA
2461	CATGCAATGA CAAAGTGTCTC AGTAGTGGAA GGCAGGTGT GACCAGTCTG CCTGCTCCTT GTACGTTACT GTTTCACGAG TCATCACCTT CCGTCGGACA CTGGTCAGAC GGACGAGGAA

Figure 12 (cont.)

2521	ACTATAATTG TGAGGATTG TTACTGGAAC AGTACATGGA GGCTGACCT TGTGGGGCA TGATATTAAC ACTCCTAAC AATGACCTTG TCATGTACCT CCGGACTGGA ACACCCCCGT
2581	CAGGGTGGAA CCTTAGCTGA ATATAGTGTG TGTCTCAAGA GGAAGTCAGG GTACTAGCTC GTCACACCTT GGAATCGACT TATATCACAC ACAGAGTCT CCTTCAGTCC CATGATCGAG
2641	AGTGCTCAAT CTCCAGGTAC TATATATACA TTTGCCGTT TTATCTCTAA TGTGAAATAA TCACGAGTTA GAGGTCCATG ATATATATGT AAACGGGCAA AATAGAGATT ACACCTTATT
2701	ATCCCCAAC ACTTGTTTAT CGTGTAGCGT ACCTAAAAGA CTATTCTATT ATGGGTGTCC TAGGGGTTTG TGAACAAATA GCACATCGCA TGGATTTCT GATAAGATAA TACCCACAGG
2761	CCACTTTCTT GGTTTGGTCA CCCCCATCCC CCGGTCTCT GCTGTATCTA GAACAGTGAC GGTGAAAGAA CCAAACCACT GGGGCTAGGG GGCCAGAAGA CGACATAGAT CTTGTCACTG
2821	TATAAATGAT GTATGGGAAT AGTGTTCCTA TATGATCTGT TGTCTGGAGT ATATGCTACA ATATTTACTA CATAACCTTA TCACAAAGGT ATACTAGACA ACAGACCTCA TATACGATGT
2881	TGTTCATTTA CTGTACAAAA ACCCAGTGCA GCTGATGATG CAAAGCAGTC TCTCTCTGTG ACAAGTAAAT GACATGTTT TGGGTACGT CGACTACTAC GTTTCGTCAG AGAGAGACAC
2941	TACAGTCCC CACCTATTTA AAAATCACGT ACTTGCCAG AACACTGTGA AACACTTAAC ATGTCACGGG GTGGATAAAAT TTTAGTGCA TGAACGGGTC TTGTGACACT TTGTGAATTG
3001	ATAAGAACAA ACGCAGCGTC TGGATTCTT CCAAGGAGAG CAGCTTCTC CACAGGAACA TATTCTGTT TGCCTCGCAG ACCTAAGAAA GGTCCTCTC GTCGAAAGAG GTGTCCTTGT
3061	CAGTAACAAA AGAGGTCCGC CGCCATCCAC ACCCAGCCAA GACACCTCAG AGGCCATAGG GTCATTGTT TCTCCAGGCG GCGGTAGGTG TGGGTGGTT CTGTTGGAGTC TCCGGTATCC
3121	GACAACTCC TTGCTGGCCA ACACCTGCTG GAGCAGGGGC ACAGGTCCC GCAACTGATC CTGTTGGAGG AACGACCGGT TGTGGACGAC CTCGTCCTCCG TGTCCAGGGT CGTTGACTAG
3181	CTCAGTGGAT GGGTCTGCAG CCAAAGCCTT AATGGGCTCT CTTTGAAGG GGAAAGAAAG GAGTCACCTA CCCAGACGTC GGTTCCGAA TTACCCGAGA GAAAACCTCC CCTTTCTTTC
3241	AATTCAAGC TTATGATATC CAATATTATT ATAGTTGATG AGTTAGTAA TTCCAAAAAA TTAAAGTTCG AATACTATAG GTTATAATAA TATCAACTAC TCAATCATTT AAGGTTTTT
3301	AAAAGATGAT TTTATATGTA TGACATAAAA AAAATCTTG TAAAGTGCAG AAGTGCATA TTTTCTACTA AAATATACAT ACTGTATTTT TTTTAGAAC ATTCACGCG TTCACGTTAT
3361	ATTTAAAGAG GTCTTATCTT TGCATTTATA AATTATAAAT ATTGTACATG TGTGTAATT TAAATTCTC CAGAATAGAA ACGTAAATAT TTAATATTAA TAACATGTAC ACACATTTAA
3421	TTCATGTATT CATTGCGAGT CTTTGTATTT AAAAAAAACTT TACTGTTATG TTTGTATAAT AAGTACATAA GTAAACGTCA GAAACATAAA TTTTTTGAA ATGACAATAC AAACATATTAA
3481	AGAACATTAA TCATTTATTA TAACTCAGAC AAGGTGTAAA TAAATTCTATA ATTCAACAG TCTTGTAAATT AGTAAATAAT ATTGAGTCTG TTCCACATT ATTAAAGTAT TAAGTTGTG
3541	CCAGTATATA TGCAATATAG GGTGTTACAT TGCAAAATC TCTATCTTTG TTCTATTCA GGTCATATAT ACGTATATAC CCACAACTGA ACGTTTTAG AGATAGAAAC AAGATAAGTG
3601	ATGCTTAAAG AAGTAAGAAA TCTTTGTGG ATATGTAATT ATACATATAA AGTATATATA TACGAATTTC TTCATTCTT AGAAAACACC TATACATTAA TATGTATATT TCATATATAT
3661	TATGTATGAT ACATGAAATA TATTAGAAA TGTTCATAAT TTTAATGGAT ATTCTTTGGT ATACATACTA TGTACTTTAT ATAATCTT ACAAGTATTA AAATTACCTA TAAGAAACCA
3721	GTGAATAATT GAATACAACA TTTTAAAAT AAAAAAAAGA AAAAAAAAGA AAAAAAAAGA CACTTATTAA CTTATGTTGT AAAAATTTA TTTTTTTTT TTTTTTTTT TTTTTTTTT

Figure 12 (cont.)

3781	AAAATTTTTT TTTTTTTTT TTATTCCAGA GATTAAAGAC ACTAGATCTT TAACCTTGAA TTTAAAAAAA AAAAAAAAATAAGGTCT CTAATTCTG TGATCTAGAA ATTGGAACCTT
3841	GGGCAGGCAA GAGGTGGCA ATGCTGTCAA CATAGAAGTC AGGGACCATT TTCTTCTTGA CCCGTCCGTT CTCCAGCGT TACGACAGTT GTATCTCAG TCCCTGGTAA AAGAAGAACT
3901	ACATGCAGTC ACTTTCTGA TTGCTCTCA CATCCTCAAG GCTCCGGAAT TCCGGGGGTG TGTACGTCA TGAAAGGACT AACGAGAAGT GTAGGAGTTC CGAGGCCTTA AGGCCCCCAC
3961	TGGTGGGCTT TGATCTCAGG ACTCTGGAGG CAGAAGCAGG CAGATCTCTG TGAATATGAG ACCACCCGAA ACTAGAGTCC TGAGACCTCC GTCTTCGTC GTCTAGAGAC ACTTATACTC
4021	GCCAGCCTGC ACTACACAGA GCTCCAGACC AGTCATGGCT ACATCATGAA ACCCTGTCTC CGGTGGACG TGATGTGTCT CGAGGTCTGG TCAGTACCGA TGTAGTACTT TGGGACAGAG
4081	AAAAAGAAAA TAAAAACTGT TGTGTTCTA CCATAGTGT AAACTCAGAG TCTGAGTAAT TTTTTCTTTT ATTTTGACA ACACAAAGAT GGTATCACAA TTTGAGTCTC AGACTCATTA
4141	GTCGGGCTGA CATGCTCGGG TGTTAACAT ACCTTCAGCT TTGACGAGGC GCTGAACAGT CAGCCCGACT GTACGAGCCC ACAAAATTGTA TGGAAAGTCGA AACTGCTCCG CGACTTGTCA
4201	CAAAGTCTGG CCTTGGGGAG CGGTGGCTGT GTTTGTGCTC AAGTCCACCG TGAAATCCTG GTTTCAGACC GGAACCCCTC GCCACCGACA CAAACACGAG TTCAGGTGGC ACTTTAGGAC
4261	ATTGTGAATT TGGACAACCG TGTCTTCTT CTTGGCCTTC CATGCAACCT CCAACTTCAT TAACACTAA ACCTGTTGGC ACAGGAAGAA GAACCGGAAG GTACGTTGGA GGTTGAAGTA
4321	GTTGGTCATT TTGTCAAAAC ACTGTGTGAT GTTTTATCA ATATACTGCC ATTCCACATA CAACCAGTAA AACAGTTTG TGACACACTA CAAAAATAGT TATATGACGG TAAGGTGTAT
4381	TGTAGAGATG TAGTCTGCCT GGCTTCCCTT TTCTTTAGCC AATCGAATGC TCTTGATCAT ACATCTCTAC ATCAGACGGA CCGAAAGGAA AAGAAATCGG TTAGCTTACG AGAACTAGTA
4441	GCCCTCAATC TCATCTCTAG CTTTTATCAC GTCTCTGCTA ATTCTGAAA CTTGAATCGA CGGGAGTTAG AGTAGAGATC GAAAATAGTG CAGAGACGAT TAAGGACTTT GAACCTAGCT
4501	AGTTTCTTC TGGTCATCT CAATGGTGT GTTCAGTTC TTCTGAATCT CATTCAAGTTT TCAAAAGAAG ACCAAGTAGA GTTACCACTA CAAGTCAGG AAGACTTACA GTAAGTCAAA
4561	CTCGTACTCC TCCATGTCAA AGTCACTGAC ACACTCATCG TCATTGGTGT AGGAAAGCTG GAGCATGAGG AGGTACAGTT TCAGTGACTG TGTGAGTAGC AGTAACCCACA TCCTTCGAC
4621	CTCTTGGTA ATCAGTTCTT TTAGCCAGGA GATTGTTTG TTCACACTGT CTACCCCTGA GAGAAACCAT TAGTCAAGGA AATCGGTCTT CTAACAAAAC AAGTGTGACA GATGGGGACT
4681	ACCACATACC TGGAAAACGT TGTGCTCTAT TTTCTTTTCC AAAACCAGGG TGTTCTTTT TGGTGTATGG ACCTTTGAC ACACGAGATA AAAGAAAAGG TTTTGGTCCC ACAAGAAAAA
4741	GGGGGAAGCT TGCTGGAA AGCCAAGAAA GGCTAAAGAG AAAATGGAAA TTAATGTTTC CCCCCTCGA ACGAACCTT TCGGGTCTT CCGATTTCTC TTTTACCTTT ATTACAAAG
4801	TTTACTCCC TTCAACATCA AGGTAGGAA TATGTATTTC ATAAAAGCTA ACAACTCACA AAAATGAGGG AAGTTGTAGT TCCAATCTT ATACATAAAAG TATTTCGAT TGTTGAGTGT
4861	GGCAATCTTA GACATCACTG ACTGCTGGC AGGCGACTGC TTGGGGGGAG CTGGAGAGCC CCGTTAGAAT CTGTAGTGAC TGACGAACCG TCCGCTGACG AACCCCCCTC GACCTCTCGG
4921	TTCTCTTCTT TTCAATGTTGT CGTAAAAAAA TTGCAGAATA TGGGGCTGGAA AGATAACAAAC AAGAGAAAAGA AAGTACAACA GCATTTTTT AACGTCTTAT ACCCCGACCT TCTATTGTTG
4981	TTTAACCTCTC TTCAACAGCCT GCACGTGATTT TTTCTGGACCA AATTCTCAA TGGCATCTAT AAATTGAGAG AAGTGTGGAA CGTGAACAAA AAAGACCTGT TTAAGAAGTT ACCGTAGATA

Figure 12 (cont.)

5041	TATCGCTTT GCTACTACGT TTGGGTCTG TTGAGCATT CCTTCAAAAA CAAAAAAAGC ATAGCGAAAA CGATGATGCA AACCCAGGAC AACTCGTAA GGAAGTTTT GTTTTTTCG
5101	ACATTTTAA AAAGTCAGG TTAAGATCCA CCTGCAAAAA AAAGCTGCAA TATAAGCGAG TGTAAAAATT TTTCAGTCTC AATTCTAGGT GGACGTTTT TTTCGACGTT ATATTCGCTC
5161	GAATTCTAGT TGTCACAGGA AATAAAAATG TCTGTTCCC CTATAATCAA TGTAGACTGA CTTAAGATCA ACAGTGTCTC TTATTTTAC AGACAAGGGT GATATTAGTT ACATCTGACT
5221	TAATATTATG CCAGCAAATA GTTTGAAGT CCTAGGCACA GTGGGAGGAG GTTTGTTCC ATTATAATAC GGTCGTTAT CAAAACATTCA GGATCCGTGT CACCCCTCTC CAAAACAAGG
5281	ACGCTGTTCA TAAGCCAATA CCCCAGCAAA AGACCTAAA GGACAACTTG TAATTTGGGA TGCAGACAAGT ATTGGTTAT GGGGTCGTT TCTGGAATT CCTGTTGAAC ATTAAACCT
5341	CATTCACATC TGCCCTCTC ATCTGATCTG GCTCCCAGTG TCACTCTCTA ACACGGTCT GTAAGTGTAG ACAGGAGAAG TAGACTAGAC CGAGGGTCAC AGTGAGAGAT TGTGCCAGGA
5401	TAGAGGGACA ATTTATCCCT GCCTCTGCTT GATCTTATGC ATGTATCTGT ATTCTTCCAG ATCTCCCTGT TAAATAGGGA CGGAGACGAA CTAGAATACG TACATAGACA TAAGAAGGTC
5461	CCATCCCTGG CGACCTGATT TTTCTAAGGC ACCCAAAACT GTAAGCTACT TCTTATAATC GGTAGGGACC GCTGGACTAA AAAGATTCCG TGGGTTTGA CATTGATGA AGAATATTAG
5521	TATAATTCTG AGCATATTAG TTAGCCTGAG CCTCCAGGAT ATCTTCTTC CCTATACTCA ATATTAAGAC TCGTATAATC AATCGGACTC GGAGGTCTA TAGAAAGAAG GGATATGAGT
5581	GTCCAGTTTT AGCTGCCAG AAGGATTCAA AGCTGATCTA CGAGTAGATC ACTCCTGCT CAGGTAAAAA TCGACGGTC TTCCTAAGTT TCGACTAGAT GCTCATCTAG TGAGGACAGA
5641	ACAGCTTGT CCAGATCTG TTTCTCAAGC CCTGGAAGCC ATCAGCCAGG TAAGATTGTA TGTCGAACAA GGTCTAGAAC AAAGAGTTCG GGACCTTCGG TAGTCGGTCC ATTCTAACAT
5701	AAACAATCCC TTTCTAATCA TGGGTGTGGC CCAAAGTGAA TGGCCGGAAT TC TTTGTAGGG AAAGATTAGT ACCCACACCG GGTTTCACCT ACCGGCCTTA AG

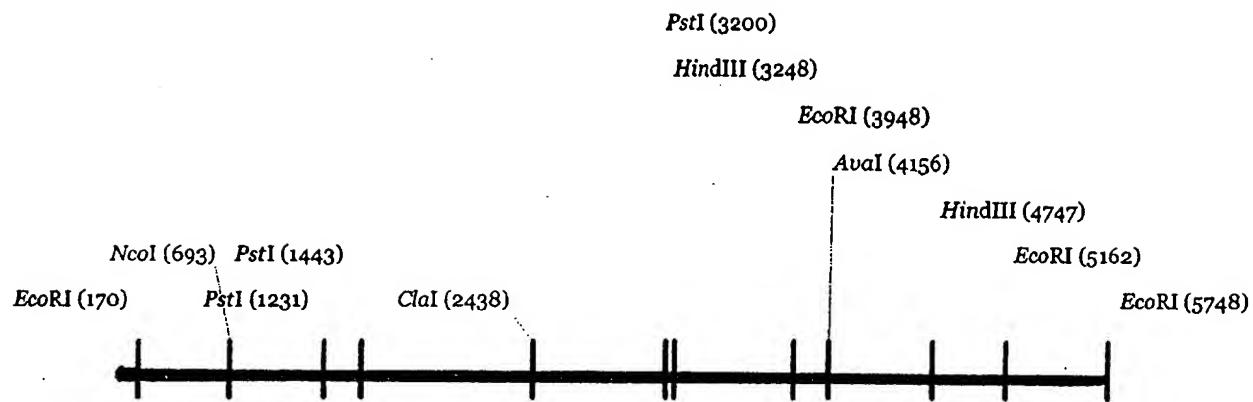


Figure 13

5752 bp

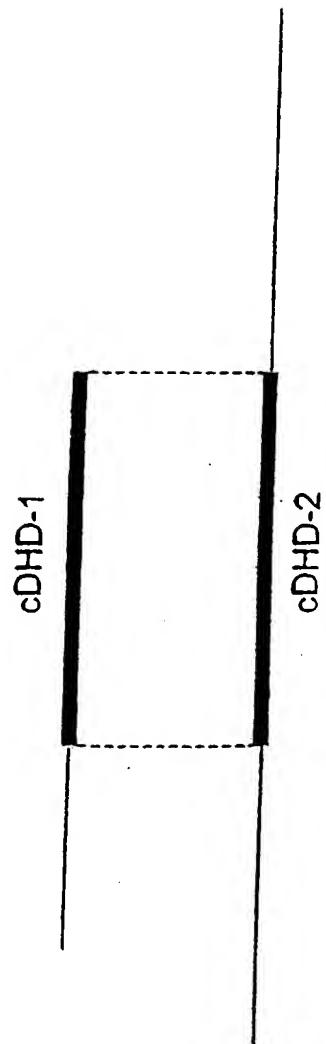


Figure 14

Figure 15

1	CGCCCGGGCA	GGTCTGTTGG	AGGGCAGTTG	GTCAACCTGA	CCAGAGAGAG	CTGAGCTGGA
	GCGGGCCCGT	CCAGACAAACC	TCCCGTCAAC	CAGTTGGACT	GGTCTCTCTC	GACTCGACCT
61	AGACCCCCACT	GATGGTGTGC	TGCCTTCAG	TCCAGGAAGA	AAGAAAGGAA	GGATTCTGAG
	TCTGGGGTGA	CTACCACACG	ACGGAAAGTC	AGGTCCCTCT	TTCTTCTCCT	CCTAAGACTC
121	GATTGGGCA	AAGCCACATT	CCTGGAGAAG	TCTGTATACT	GATGCCAAC	CCAAGAGCTG
	CTAAACCCGT	TCGGGTGAA	GGACCTCTTC	AGACATATGA	CTACGGTTG	GGTTCTCGAC
181	AGCTGCTGAT	GAGGCCAGG	GAGTAGCCCCA	CGCGCCCTGA	GCTGTTGGCT	AGCAAGGGCT
	TCGACGACTA	CTCCGGGTCC	CTCATCGGGT	CGCGGGACT	CGACAACCGA	TCGTTCCGGA
241	TCCTGCTCCA	TGTGGCATGG	AAAAATTATA	TGGTTGACG	GATGAAAAGG	TGAAGGCCTA
	AGGACGAGGT	ACACCGTACC	TTTTAATAT	ACCAAACCTGC	CTACTTTCC	ACTTCCGGAT
301	TCTTCTCTC	CATCCCCAGG	TATTAGATGA	ATTTGTTCT	GAAAGTGTAA	GTGCAGAGAC
	AGAAAAGAGAG	GTAGGGGTCC	ATAATCTACT	AAACAAAGA	CTTTCACAAT	CACGTCTCTG
361	TGTGGAAAAG	TGGCTGAAGA	GGAAAACCAA	CAAAGAAAA	GATGAACCAT	CTCCCAAGGA
	ACACCTTTTC	ACCGACTTCT	CCTTTGGTT	GTTCGTTTT	CTACTTGGTA	GAGGGTTCCCT
421	AGTCAGCAGG	TACCAAGGATA	CGAATATGCA	GGGAGTCGTG	TACGAGCTGA	ACAGCTACAT
	TCAGTCGTCC	ATGGTCCTAT	GCTTATACGT	CCCTCAGCAC	ATGCTCGACT	TGTCGATGTA
481	AGAGCAGCGC	CTGGACACGG	GCGGGGACAA	CCACCTGCTC	CTCTATGAGC	TCAGCAGCAT
	TCTCGTCGCG	GACCTGTGCC	CGCCCCCTGTT	GGTGGACGAG	GAGATACTCG	AGTCGTCGTA
541	CATCAGGATA	GCCACAAAAG	CCGACGGATT	TGCACTGTAC	TTCCCTGGAG	AGTGCAATAA
	GTAGTCCTAT	CGGTGTTTC	GGCTGCCTAA	ACGTGACATG	AAGGAACCTC	TCACGTTATT
601	TAGCCTGTGT	GTGTTCATAC	CACCCGGGAT	GAAGGAAGGC	CAACCCCGGC	TCATCCCTGC
	ATCGGACACA	CACAAGTATG	GTGGGCCCTA	CTTCCTTCCG	GTTGGGGCCG	AGTAGGGACG
661	AGGGCCCACATC	ACCCAGGGTA	CCACCATCTC	TGCCTACGTG	GCCAAGTCTA	GGAAGACGTT
	TCCCGGGTAG	TGGGTCCCAT	GGTGGTAGAG	ACGGATGCAC	CGGTTTCAGAT	CCTCTGCAA
721	GTGGTAGAG	GATATCCTTG	GGGATGAGCG	ATTCCTCGA	GGTACTGGCC	TGGAATCAGG
	CAACCATCTC	CTATAGGAAC	CCCTACTCGC	TAAAGGAGCT	CCATGACCGG	ACCTTAGTCC
781	AACCCGCATC	CAGTCTGTT	TTGCTTGCC	CATTGTCACT	GCCATTGGAG	ACTTGATTGG
	TTGGGCGTAG	GTCAGACAAG	AAACGAACGG	GTAACAGTGA	CGGTAACCTC	TGAACTAACC
841	CATCCTTGAA	CTGTACAGGC	ACTGGGGCAA	AGAGGCCCTC	TGCCTCAGCC	ATCAGGAGGT
	GTAGGAACCT	GACATGTCG	TGACCCCGTT	TCTCCGGAAG	ACGGAGTCGG	TAGTCCTCCA
901	TGCAACAGCC	AATCTTGCTT	GGGCTCCGT	AGCAATACAC	CAGGTGCAGG	TGTGTAGAGG
	ACGTTGTCGG	TTAGAACGAA	CCCGAAGGCA	TCGTTATGTG	GTCCACGTCC	ACACATCTCC
961	TCTGCCAAA	CAGACCGAAC	TGAATGACTT	CCTACTCGAC	GTATCAAAGA	CATACTTGA
	AGAGCGGTTT	GTCTGGCTTG	ACTTACTGAA	GGATGAGCTG	CATAGTTCT	GTATGAAACT
1021	TAACATAGTT	GCCATAGACT	CTCTACTTGA	ACACATCATG	ATATATGAA	AAAATCTAGT
	ATTGTATCAA	CGGTATCTGA	GAGATGAAC	TGTGTAGTAC	TATATACGTT	TTTTAGATCA
1081	GAACGCCGAC	CGCTGCGCGC	TCTTCCAGGT	GGACCACAAG	AACAAGGAGC	TGTACTCGGA
	CTTGCCTG	GCGACGCCGCG	AGAAGGTCCA	CCTGGTGTTC	TTGTTCTCG	ACATGAGCCT
1141	CCTGTTGAC	ATTGGGGAGG	AGAAGGAGGG	GAAGCCCACATC	TTCAAGAAGA	CCAAGGAGAT
	GGACAAACATG	TAACCCCTCC	TCTTCCCTCC	CTTCGGGTAG	AAGTCTTCT	GGTTCCCTCTA
1201	CAGATTTCC	ATTGAGAAAG	GGATTGCTGG	TCAAGTGGCA	AGAACAGGGCG	AAGTCTTGAA
	GTCTAAAAGG	TAACTCTTC	CCTAACGACC	AGTTCACCGT	TCTTGTCCGC	TTCAAGACTT

**Figure 15 (cont.)**

1261	CATTCCCGAT GCCTACCGCGG ACCCTCGCTT TAACAGGGAG GTGGACCTGT ACACAGGCTA GTAAGGGCTA CGGATGCGCC TGGGAGCGAA ATTGTCCCTC CACCTGGACA TGTGTCCGAT
1321	CACCACGAGG AACATTCTGT GTATGCCAT AGTGAGCGA GGCAGCGTGA TTGGCGTGGT GTGGTGCTCC TTGTAAGACA CATACTGGTA TCACTCGGCT CCGTCGCACT AACCGCACCA
1381	GCAGATGGTG AACAAAGATCA GCGGTAGCGC CTTCTCCAAG ACAGACGAGA ACAACTTCAA CGTCTACACAC TTGTTCTAGT CGCCATCGCG GAAGAGGTTG TGCTGCTCT TGTTGAAGTT
1441	GATGTTGCT GTCTTCTGCG CACTGGCCTT GCACTGTGCT AACATGTACC ACAGGATCCG CTACAAACGA CAGAAGACGC GTGACCGGAA CGTGACACGA TTGTACATGG TGTCCTAGGC
1501	CCACTCAGAA TGCATCTACA GGGTTACCAT GGAGAAGCTT TCCTACCACA GCATCTGCAC GGTAGTCTT ACGTAGATGT CCCAATGGTA CCTCTTCGAA AGGATGGTGT CGTAGACGTG
1561	CTCCGAGGAG TGGCAAGGCC TCATGCGCTT CAACCTACCA GCACGCATCT GCCGGGACAT GAGGCTCCTC ACCGTTCCGG AGTACCGGAA GTTGGATGGT CGTGCAGA CGGCCCCTGTA
1621	CGAGCTATTG CACTTTGACA TTGGTCCTTT CGAGAACATG TGGCCTGGGA TCTTTGTCTA GCTCGATAAG GTGAAACTGT AACCCAGGAAA GCTCTTGAC ACCGGACCC AGAAACAGAT
1681	CATGATCCAT CGGTCTGTG GGACATCCTG TTTGAACCT GAAAAATTGT GCCGTTTAT GTACTAGGTA GCCAGAACAC CCTGTAGGAC AAAACTGAA CTTTTAAACA CGGCAAAATA
1741	CATGTCTGTG AAGAAGAACT ATCGGCGGGT TCCTTACAC AAC TGGAAAGC ATGCAGTCAC GTACAGACAC TTCTTCTGAA TAGCCGCCA AGGAATGGTG TTGACCTTCG TACGTCACTG
1801	GGTGGCACAC TGCATGTATG CCATACTTCA AAACAACAAT GGCCCTCTCA CAGACCTCGA CCACCGTGTG ACGTACATAC GGTATGAAGT TTTGTTGTTA CGGGAGAAGT GTCTGGAGCT
1861	GCGCAAAGGC CTGCTAATTG CGTGTCTGTG CCATGACCTG GACCACAGGG GCTTCAGTAA CGCGTTCCG GACGATTAAC GCACAGACAC GGTACTGGAC CTGGTGTCCC CGAAGTCATT
1921	CAGCTACCTG CAGAAGTTCG ACCACCCCCCT GGCGGCCTG TACTCCACCT CCACCATGGA GTGCGATGGAC GTCTTCAAGC TGGTGGGGGA CGCCCGCGAC ATGAGGTGGA GGTGGTACCT
1981	GCAACACCAC TTCTCCCAGA CGGTGTCCAT CCTTCAGCTG GAAGGGCACA ATATCTCTC CGTGTGGTG AAGAGGGTCT GCCACAGGTA GGAAGTCGAC CTTCCGTGT TATAGAAGAG
2041	CACCCCTGAGC TCCAGCGAGT ACGAGCAGGT GCTGGAGATC ATCCGCAAAG CCATCATCGC GTGGGACTCG AGGTGCGCTCA TGCTCGTCCA CGACCTCTAG TAGGCCTTTC GGTAGTAGCG
2101	CACCGACCTC GCCCTATACT TTGGGAACAG GAAGCAGTTG GAGGAGATGT ACCAGACAGG GTGGCTGGAG CGGGATATGA AACCCCTGTC CTTCGTCAAC CTCCTCTACA TGGTCTGTCC
2161	GTCGCTGAAC CTCCACAAACC AGTCCCACATCG AGACCGTGTG ATCGGCTTGA TGATGACTGC CAGCGACTTG GAGGTGTGG TCAGGGTAGC TCTGGCACAG TAGCCGAACACT ACTACTGACG
2221	CTGTGATCTT TGCTCTGTGA CCAAACATATG GCCAGTTACA AAATTGACAG CGAATGATAT GACACTAGAA ACGAGACACT GGTTTGATAC CGGTCAATGT TTTAAGTGTGTC GCTTACTATA
2281	ATATGCAGAA TTCTGGGCTG AGGGTGTGATGA GATGAAGAAG CTGGGCATAC AGCCCATTC TATACGTCTT AAGACCGAC TCCCACTACT CTACTTCTTC GACCCGTATG TCGGGTAAGG
2341	TATGATGGAC AGAGACAAGC GAGATGAAGT CCCTCAAGGG CAGCTCGGAT TCTACAATGC ATACTACCTG TCTCTGTGTCG CTCTACTTCA GGGAGTTCCC GTCGAGCCTA AGATGTTACG
2401	TGTGGCCATT CCCTGCTATA CCACCTTGAC GCAGATCCCTC CCACCCACAG AGCCTCTGCT ACACCGGTAA GGGACGATAT GGTGGAACGT CGTCTAGGAG GGTGGGTGTC TCGGAGACGA
2461	GAAGGCCTGC AGGGATAACC TCAATCAGTG GGAGAAGGTA ATTCCGGGGGG AAGAGACAGC CTTCCGGACG TCCCTATTGG AGTTAGTCAC CCTCTTCCAT TAAGCGCCCC TTCTCTGTGCG

Figure 15 (cont.)

2521	AATGTGGATT	TCAGGCCAG	GCCCGCGCC	TAGCAAGAGC	ACACCTGAGA	AGCTGAACGT
	TTACACCTAA	AGTCGGGTC	CGGGCCGCG	ATCGTTCTG	TGTGGACTCT	TCGACTTGCA
2581	GAAGGTTGAA	GAATGATCCT	GAAGTGACGT	CCTGATGTCT	GCCCAGCAAC	CGACTCAACC
	CTTCAACTT	CTGACTAGGA	CTTCACTGCA	GGACTACAGA	CGGGTCGTTG	GCTGAGTTGG
2641	TGCTTCTGTG	ACTTCGTTCT	TTTGTTTC	AAGGGGTGAA	AACCCCTGT	CAGAAGGTAC
	ACGAAGACAC	TGAAGCAAGA	AAAACAAAAG	TTCCCCACTT	TTGGGGGACA	GTCTTCCATG
2701	CGTCGCATAT	CCATGTGAAG	CAGACGACTC	CCTGCTTGCC	GCACACACCT	CGGACAGTGA
	GCAGCGTATA	GGTACACTTC	GTCTGCTGAG	GGACGAACGG	CGTGTGTGGA	GCCTGTCACT
2761	GCAACCCAGG	CTCTGCCGTG	TTCAGACGTC	GGCTACTCCG	TGGCTCCACC	TGACCTCCGA
	CGTTGGGTCC	GAGACGGCAC	AAGTCTGCAG	CCGATGAGGC	ACCGAGGTGG	ACTGGAGGCT
2821	ATGCTATTTG	CTCCCAGGCC	AGCACTGCAC	TGTCTGGAGG	GGGCAGAGAC	CACAGGAGAG
	TACGATAAAC	GAGGGTCCCG	TCGTGACGTG	ACAGACCTCC	CCCCTCTCTG	GTGTCCTCTC
2881	GTTCTGCCT	GCATCCTCCC	ATGAGGGTGT	GGCCAGTCC	CTAGTTCTGT	GCCATGCTGC
	CAAGAACCGA	CGTAGGAGGG	TACTCCCACA	CCGGTCAAGG	GATCAAGAGCA	CGGTACGACG
2941	TGCTTGGTGG	CATTGGTAG	GAATGGGACA	CACGCCCTT	GTTGTGAAGT	TTACATGTGA
	ACGAACCACC	GTAACCAATC	CTTACCCCTGT	GTGCGGGAA	CAACACTTCA	AATGTACACT
3001	CCTCTTATA	GGTTAACTGA	GTTTGTGGCC	TGGACACATG	TAATGAAGGT	CACAGTCCAC
	GGAAAGAATAT	CCAATTGACT	CAAACACCGG	ACCTGTGTAC	ATTACTTCCA	GTGTCAGGTG
3061	AGGTGACAGA	GAAATCCAAA	CTGTTGATTA	CAGGTGCACT	ACAGGTATGC	TCTTCAGTC
	TCCACTGTCT	CTTTAGGTTT	GACAACTAAT	GTCCACGTGA	TGTCCATACG	AGAAAGTCAG
3121	TATCTGGGGG	CACATAGGTG	AGTCTGCTCC	ACTCAGAANN	AAGCATAACCT	CTGCCCTCAT
	ATAGACCCCC	GTGTATCCAC	TCAGACGAGG	TGAGTCTTNN	TTCGTATGGA	GACGGGAGTA
3181	CCAGGGGACA	CAGGGTACAT	CCCAGGCATC	GGGGAACGTGA	AGCTCTCACT	TCAAACCATG
	GGTCCCTGT	GTCCCAGTGA	GGGTCCGTAG	CCCTTGACT	TCGAGAGTGA	AGTTTGGTAC
3241	TCAAAGAATT	AAAACACCTC	CCCTCCCCCT	CACTGTAGCC	TTCGACAACT	GCGCCAATCC
	AGTTTCTTAA	TTTGTGGAG	GGGAGGGGG	GTGACATCGG	AAGCTGTTGA	CGCGGTTAGG
3301	CTTATACAA	AGAAAATAAA	AGTAAGGCAT	ATAAATTCC	TCCAGCAAGC	AAATCTGTG
	GAATATGTT	TCTTTATTT	TCATTCCGTA	TATTTAAAGG	AGGTGTTCG	TTTAGAACAC
3361	GGTAAAAAAA	AAGCATGTGA	ATNNTAACAA	CNTCTANANT	NTCNCGNAT	GTTATGGCAG
	CCATTTTTT	TTCGTACACT	TANNATTGTT	GNAGATNTNA	NAGNGNCNTA	CAATACCGTC
3421	AATTTAGTC	ACGTCCAAAA	CAAAAAGATT	ATTCAGAAG	ATACCTCATC	CTATGCCTGA
	TTAAAATCAG	TGCAGGTTT	GTTTTCTAA	TAAGGTCTTC	TATGGAGTAG	GATACGGACT
3481	AAGGCTCCAC	AGCATGGCGT	CCGTCTCCCA	GGGTTCTGAT	CCGTCCTCCTC	ACGGTGCAAT
	TTCCGAGGTG	TCGTACCGCA	GGCAGAGGGT	CCCAAGACTA	GGCAGAGGAG	TGCCACGTTA
3541	CAGGCAGGAC	AGAGAGGAGG	GCTGCAGGGC	TACCACATTG	ACCCAGAAGG	TATCTCCTCT
	GTCCGTCCTG	TCTCTCTCC	CGACGTCCCC	ATGGTGTAA	TGGGTCTTCC	ATAGAGGAGA
3601	CACCATTCA	ACATCCATAA	GGAATGCCAA	ATGCTGTATT	GAATAGTTCT	CTGTGTGACT
	GTGGTAAGTC	TGTAGGTATT	CCTTACGGTT	TACGACATAA	CTTATCAAGA	GACACACTGA
3661	TTCTAGAGAA	GCCAGGACAC	CCTGAGCCTT	TCCNGGGGAA	CTCTAAGGAG	TCACAGGTTTC
	AAGATCTCTT	CGGTCTGTG	GGACTCGGAA	AGNNCCCTT	GAGATTCCCTC	AGTGTCCAAG
3721	ACACCGTGGG	GATTTTCAGG	ATAGCATGGA	GACAGAGATC	CGGTGTTGT	TCTCACTCGT
	TGTGGCACCC	CTAAAAGTCC	TATCGTACCT	CTGTCTCTAG	GCCAGCAACA	AGAGTGAGCA

Figure 15 (cont.)

3781	GAGCCTTGAG AAGGAGAGAC TGACCAGAAA CACTCACTCA GCACCTTGCA GGAGCAGGAG CTCGGAACTC TTCCCTCTCTG ACTGGTCTTT GTGAGTGAGT CGTGAGACGT CCTCGTCCTC
3841	AAGATACTTT AAGATGAATC TTGGATAGAT TTTGATACAC CCAATACCAT ACACACAGGA TTCTATGAAA TTCTACTTAG AACCTATCTA AAACTATGTG GGTATGGTA TGTGTGTCCT
3901	GCTTGGCATT TGCAAAGTCT ATTCACTTTC CTTCCCGCCT CTGACCCACG GTTGTAGCGG CGAACCGTAA ACGTTTCAGA TAAGTCAAAG GAAGGCGCGA GACTGGGTGC CAACATGCC
3961	AGTGGGCTGA ACACTGTAAC ACTGTACATG CGATTTCCCC ATGGGCTTCT AAAATGTCAC TCACCCGACT TGTGACATTG TGACATGTAC GCTAAAGGGG TACCCGAAGA TTTTACAGTG
4021	CATCTCCTCC CCTGCTGTGT CCTACTCCAT TTACTGGTTA CAAGGTGATG TCAACAAAGAG GTAGAGGAGG GGACGACACA GGATGAGGTA AATGACCAAT GTTCCACTAC AGTTGTTCTC
4081	AAGCTATCAC AACACCAAGGG CTGTGCACAC GTGCACACAC ATGTATGCAC AAGCACACAG TTCGATAGTG TTGTGGTCCC GACACGTGTG CACGTGTG TACATACGTG TTCGTGTGTC
4141	ATGTATGTAC AGCACACACA CACACACACA CCCCCAAAAGG AGAGAAAAGG AAGAAAACAT TACATACATG TCGTGTGTGT GTGTGTGTGT GGGGTTTCC TCTCTTTCC TTCTTTGTA
4201	TTATAAAAAG CGACAGCTAC CCCATATCAA AATAGTCTTT CCTGTAGGAA ACAGGAGCTC AATATTTTC GCTGTCGATG GGGTATAGTT TTATCAGAAA GGACATCCTT TGTCCCTCGAG
4261	TCCATAAGGA ATTATCATGA GTGTGTTCTC CCATCAGTGC ACTCTCCCAG GGGTGCTCAC AGGTATTCCCT TAATAGTACT CACACAAGAG GGTAGTCACG TGAGAGGGTC CCCACGAGTG
4321	TGAAGCTGGT CCACRTCTAT AAACAGGTGA CACTGGCTGC AGCAAAAAGC CATTGATCC ACTTCGACCA GGTGYAGATA TTTGTCCACT GTGACCGACG TCCTTTTCG GTAAGCTAGG
4381	ACACAAATTG ATCTTCTATC ATCTTGGAAAT CTGAATTGCA GGGAGGAGCA GYATGTAAGA TGTGTTAAC TAGAAGATAG TAGAACCTTA GACTTAACGT CCCTCCTCGT CRTACATTCT
4441	CGACCGTTA ATTCAAGGCAT TCCGAAGGCA TGAGCGCATG GATTCTRTCA CCAAGCGTAT GCTGGCAAAT TAAGTCCGTA AGGCTTCCGT ACTCGCGTAC CTAAGAYAGT GGTCGCGATA
4501	AAAAGGACCC TGGCATTGGG AAACCTATGA CGGACTGTT TTGCTGTAGA AGTAGGGATT TTTCCTGGG ACCGTAACCC TTTGGATACT GCCTGACAAA AACGACATCT TCATCCCTAA
4561	TTACAGAACT CTCCCTGRAT TTGCCCTGCC TGGGGCAGTT TTGCGAGAGGA ACCTGCCAGA AATGTCTTCA GAGGAACYTA AACGGGACGG ACCCCGTCAA AACGTCTCCT TGGACGGTCT
4621	GATTTATTGG CTGGTCAGTC TCTTGTAAA TAGTATCATG TGAGAAACAG TTTGTAGAAA CTAAATAACC GACCACTCAG AGAACACTTT ATCATAGTAC ACTCTTTGTC AAACATCTT
4681	AAAACTATAC CTGGGAAGAC CTTGCAACA TTGTTCTTC CATGGGCCAA GACTCAGTTA TTTGATATG GACCCCTCTG GAAACGTTGT AACAAAGGAAG GTACCCGGTT CTGAGTCAAT
4741	GGAGGCATAA ATCTGCCGG AATAAACTAG GCCAGGATAC AGCCATGTTT AGTTAAATAAT CCTCCGTATT TAGACGGGCC TTATTTGATC CGGTCCATG TCGGTACAAA TCAATTATTA
4801	TTGGTTTAG AATTCACACA GGCAGGATTG GTTTTTGT GTCTGGCAA GTGGAGCATA AACCAAAATC TTAAGTGTGT CCGTCCTAAC CAAAAAAACA CAGAACCGTT CACCTCGTAT
4861	TTAACATAC AGGCATGGGA ATCCCTGCCTC TTAGCTTTTC CCACCCCTT GTCTCACCAA AAATTGTATG TCCGTACCCCT TAGGACGGAG AATCGAAAAG GGTGGGAGAA CAGAGTGGTT
4921	GTTTTTCTC TCCAAAGGTT TCCAGGAATT TCTCATTAAT GGCTGATGCA AACCTAGTGA CAAAAGAG AGGTTCCAA AGGTCTTAA AGAGTAATTA CCGACTACGT TTGAATCACT
4981	ATAATAATGA ATATAAACAA TGCTCACCTC ACCAAAATTA TATTATTTGC AGTCATTGT TATTATTACT TATATTGTT ACGAGTGGAG TGGTTTAAT ATAATAAACG TCAGTAAACA

Figure 15 (cont.)

5041	GATAACACAA	ATTTTATCGC	AATGGTTATT	ATTTAATTG	TGGCCACACA	CTGTGGTTAT
	CTATTGTGTT	TAAAATAGCG	TTACCAATAA	TAAATTAAAC	ACCGGTGTGT	GACACCAATA
5101	CTTTGTTGT	GGTTGTTCT	GAGAAAATGT	TCTTGGATAT	GTAAGTGC	ATACCAGTGT
	GAAAACAACA	CCAACAAAGA	CTCTTTACA	AGAACCTATA	CATTCACGGT	TATGGTCACA
5161	GAAGTATTGA	TCCCAGGCAG	CAAATACAG	CCTAAGGTTT	GTAAACATCA	ATTCTATCTC
	CTTCATAACT	AGGGCCCGTC	GTTTATGTC	GGATTCCAAA	CATTTGTAGT	TAAGATAGAG
5221	AGTTCATCAG	AGGGCCTGAG	AAGCTGCAGG	GCAGTGTAAA	GTAAAGTATG	CTGGGCTGGT
	TCAAGTAGTC	TCCCAGACTC	TTCGACGCCC	CGTCACATTT	CATTCATAC	GACCCGACCA
5281	GGTGGTCAGC	CTCCCCTTGC	CAAGAAGAGA	GCAATTGAAT	CCTGTC	GCTCCCTCCA
	CCACCAGTCG	GAGGGAAACG	GTTCCTCTCT	CGTTAACCTA	GGACAGGGGT	CGAGGGAGGT
5341	CGCCTGAAGA	GTGACCACTG	CTGGCCCGAC	GGATCGCTGA	GATATTCTCC	CATAATGGCA
	GCGGACTTCT	CACTGGTCAC	GACCGGGCTG	CCTAGCGACT	CTATAAGAGG	GTATTACCGT
5401	AAAAAAATAGG	CAGTTGATG	TGACCTGTTT	AGTGTGGCTC	TCCTCTTTG	AGCATGTGTT
	TTTTTATCC	GTCAAACACTAC	ACTGGACAAA	TCACACCGAG	AGGAGAAAAC	TCGTACACAA
5461	AGCATTTTA	TTTTTATACTC	ATCCAGTGAA	CTCTGCTCTT	CCAAGTGTGT	TCATGTATGT
	TCGTAAAAAT	AAAATATGAG	TAGGTCACTT	GAGACGAGAA	GGTCACACA	AGTACATACA
5521	GCTAGATATA	TTAGCACAGC	CTGCCTTCTG	CTGCACAAACG	CCTAGAGAC	CCGGCCTTTC
	CGATCTATAT	AATCGTGTG	GACGGAAGAC	GACGTGTG	GGAAATCTG	GGCCGGAAAG
5581	AATGAGCTTA	GCTTGTGCTC	TGTTTCTGCT	CTCTTAGGTC	TAAACTATGG	TGTCAGTTT
	TTACTCGAAT	CGAACACGAG	ACAAAGACGA	GAGAACCCAG	ATTTGATACC	ACAGTCAAAA
5641	AATAGAACAA	AAGTATGCAT	CTTGCCTTGG	CTTGAGCCTT	TTCGTTTCA	ATGCTGACTT
	TTATCTTGT	TTCATACGTA	GAACGGAAC	GAACCGGAA	AAGCAAAAGT	TACGACTGAA
5701	CTCCCCTTTC	TCTCCTGTGC	TCACCTTACC	TTTCCAGAGT	GTAAGGGACA	ACTTTAAGG
	GAGGGAAAG	AGAGGACACG	AGTGAATGG	AAAGGTCTCA	CATTCCCTGT	TGAAAATTCC
5761	AGGCGTGTCC	CTGGTAGGGG	CATCCCTGTT	CACCAGGTGC	CTGTCATCAC	CCCACTTGAC
	TCCGCACAGG	GACCATCCCC	GTAGGGACAA	GTGGTCCACG	GACAGTAGTG	GGGTGAAC
5821	TGACATCTAC	CCTGGTGA	CTGGTTCTCCT	CTTGTTGTA	GGGAACGGTG	GCTCCAGGTG
	ACTGTAGATG	GGACCACTGA	TACCCAAAGGA	GAACAAACAT	CCCTGCCAC	CGAGGTCCAC
5881	GAGGCATCAA	TCTGTTGGGT	TCTGGTTC	GGCTGCCTT	GGTTTGAAA	GTCTCTTC
	CTCCGTAGTT	AGACAACCCA	AGACCAAGGG	CCGACGGAAA	CCAAAAC	CAGAGAACAG
5941	TGTATATTCC	TACCCATGCAT	TTGTTTGTG	TGGTGCTGAT	GCTGTGGCAG	TAGGATCTG
	ACATATAAGG	ATGGGACGTA	AACGAAACAC	ACCACGACTA	CGACACCGTC	ATCCTAGAAC
6001	GATGACTCTC	CATCAGTCAC	AGACTCCCCC	TGTTGCAAAG	TGTCAGGCTG	ACTCGACAGT
	CTACTGAGAG	GTAGTCAGT	TCTGAGGGGG	ACAACGTTTC	ACAGTCCGAC	TGAGCTGTCA
6061	CACCGTAAAAA	TCTGAGTCAG	TCACACACAG	GCTGTCAGCC	ACGGCTTCCA	CTTGCATGGC
	GTGGCATT	AGACTCAGTC	AGTGTGTGTC	CGACAGTCGG	TGCCGAAGGT	GAACGTACCG
6121	TATCTATTT	TCACACGTGA	GTTCCTGTTG	CTGGCTGGCT	GACTGGCATT	ATCTATGCTA
	ATAAGATAAA	AGTGTGCACT	CAAAGACAAC	GACCGACCGA	CTGACCGTAA	TAGATACGAT
6181	AGTGAAATC	AGGAGTGTGC	CCAGCAGAGC	CCATCATTCT	CACTGTCTT	GAAACAAAGC
	TCAACTTTAG	TCCTCACACG	GGTCGTCTG	GGTAGTAAGA	GTGACAGAAA	CTTTGTTTCG
6241	TGTACGGTTT	GATCGATGAA	CGTATTTAAA	GCATTCATG	CAATGACAAA	GTGCTCAGTA
	ACATGCCAAA	CTAGCTACTT	GCATAAATT	CGTAAAGTAC	GTTACTGTTT	CACGAGTCAT

Figure 15 (cont.)

6301	GTGGAAGGCA GGCTGTGACC AGTCTGCCTG CTCCCTACTA TAATTGTGAG GATTTGTTAC CACCTTCCGT CCGACACTGG TCAGACGGAC GAGGAATGAT ATTAACACTC CTAAACAATG
6361	TGGAACAGTA CATGGAGGCC TGACCTTGTG GGGGCACAGG GTGGAACCTT AGCTGAATAT ACCTTGTCA GTACCTCCGG ACTGGAACAC CCCCGTGTCC CACCTTGAA TCGACTTATA
6421	AGTGTGTGTC TCAAGAGGAA GTCAGGGTAC TAGCTCAGTG CTCAATCTCC AGGTACTATA TCACACACAG AGTTCTCCTT CAGTCCCAGT ATCGAGTCAC GAGTTAGAGG TCCATGATAT
6481	TATACATTTG CCCGTTTAT CTCTAATGTG AAATAAATCC CCAAACACTT GTTATCGTG ATATGTAAAC GGGCAAAATA GAGATTACAC TTTATTTAGG GGTTTGTGAA CAAATAGCAC
6541	TAGCGTACCT AAAAGACTAT TCTATTATGG GTGTCCCCAC TTTCTGGTT TGGTCACCCCC ATCGCATGGA TTTTCTGATA AGATAATACC CACAGGGGTG AAAGAACCAA ACCAGTGGGG
6601	GATCCCCCGG TCTTCTGCTG TATCTAGAAC AGTGAACACTA AATGATGTAT GGGAAATAGTG CTAGGGGCC AGAAGACGAC ATAGATCTTG TCACTGATAT TTACTACATA CCCTTATCAC
6661	TTTCCATATG ATCTGTTGTC TGGAGTATAT GCTACATGTT CATTACTGT ACAAAAACCC AAAGGTATAC TAGACAAACAG ACCTCATATA CGATGTACAA GTAAATGACA TGTTTTGGG
6721	AGTCAGCTG ATGATGCAAA GCAGTCTCTC TCTGTGTACA GTGCCAAC TATTTAAAAAA TCACGTCGAC TACTACGTT CGTCAGAGAG AGACACATGT CACGGGGTGG ATAAATTTT
6781	TCACGTACAA NCCCAGAACAA CTGTGAAACA CTTAACATAA GAAACAAACG CAGCGTCTGG AGTGCATGTT NGGGTCTTGT GACACTTGT GAATTGTATT CTTGTTGC GTCGCAGACC
6841	ATTCTTCCA AGGAGAGCAG CTTCTCCAC AGGAACACAG TAACAAAAGA GGTCCGCCGC TAAGAAAGGT TCCCTCGTC GAAAGAGGTG TCCTTGTGTC ATTGTTTCT CCAGGCGGGC
6901	CATCCACACC CAGCCAAGAC ACCTCAGAGG CCATAGGGAC AACCTCCTG CTGGCCAACA GTAGGTGTGG GTCGGTTCTG TGGAGTCTCC GGTATCCCTG TTGGAGGAAC GACCGGTTGT
6961	CCTGCTGGAG CAGGGCACAG GTCCAGCAA CTGATCCTCA GTGGATGGGT CCGCAGTC GGACGACCTC GTCCCGTGT CAGGGTCGTT GACTAGGAGT CACCTACCCA GGCAGTCAGTT
7021	AGCCTTAATG GGCTCTCTT TGAAGGGAA AGAAAANNTT CAAGCTTATG ATATCCAACA TCGGAATTAC CCGAGAGAAA ACTTCCCTT TCTTTNNAAA GTTCAATAC TATAGGTGT
7081	TTATTATAGT TGATGAGTTA GTAAATTCCG AAAAAAAAG ATGATTTAT ATGTATGACA AATAATATCA ACTACTCAAT CATTAAAGGC TTTTTTTTC TACTAAAATA TACATACTGT
7141	TAAAAAAAT CTTGTAAAG TGCGCAAGTG CAATAATTAA AAGAGGTCTT ATCTTGCAT ATTTTTTTA GAAACATTTC ACGCGTTCAC GTTATTAAT TTCTCCAGAA TAGAAACGTA
7201	TTATAAAATTA TAAATATTGT ACATGTGTGT AATTTTCAT GTATTCAATT GCAGTCTTG AATATTTAAT ATTTATAACA TGTACACACA TTAAAAGTA CATAAGTAAA CGTCAGAAC
7261	TATTTAAAAA AACTTTACTG TTATGTTGT ATAATAGAAC ATTAATCATT TATTATAACT ATAAAATTTT TTGAAATGAC AATACAAACA TATTATCTG TAATTAGTAA ATAATATTGA
7321	CAGACAAGGT GTAAATAAT TCATAATTCA AACAGCCAGT ATATATGCAT ATATGGGTGT GTCTGTTCCA CATTATTAAAGT TTGTCGGTCA TATATACGTA TATACCCACA
7381	TACATTGCAA AAATCTCTAT CTTGTTCTA TTCACATGCT TAAAGAAGTA AGAAATCTT ATGTAACGTT TTTAGAGATA GAAACAAGAT AAGTGTACGA ATTTCTTCAT TCTTAGAAA
7441	TGTGGATATG TAATTATACA TATAAAAGTAT ATATATATGT ATGATACATG AAATATATT ACACCTATAC ATTAATATGT ATATTCATA TATATATACA TACTATGTAC TTTATATAAA
7501	AGAAATGTTC ATAATTTAA TGGATATTCT TTGGTGTGAA TAATTGAATA CAACATTTT TCTTTACAAG TATTAATTAATT ACCTATAAGA AACCAACACTT ATTAACCTTAT GTGTAAAAAA

**Figure 15 (cont.)**

7561 AAAATGAAAA AAAAAAAA C  
TTTTACTTTT TTTTTTTT G

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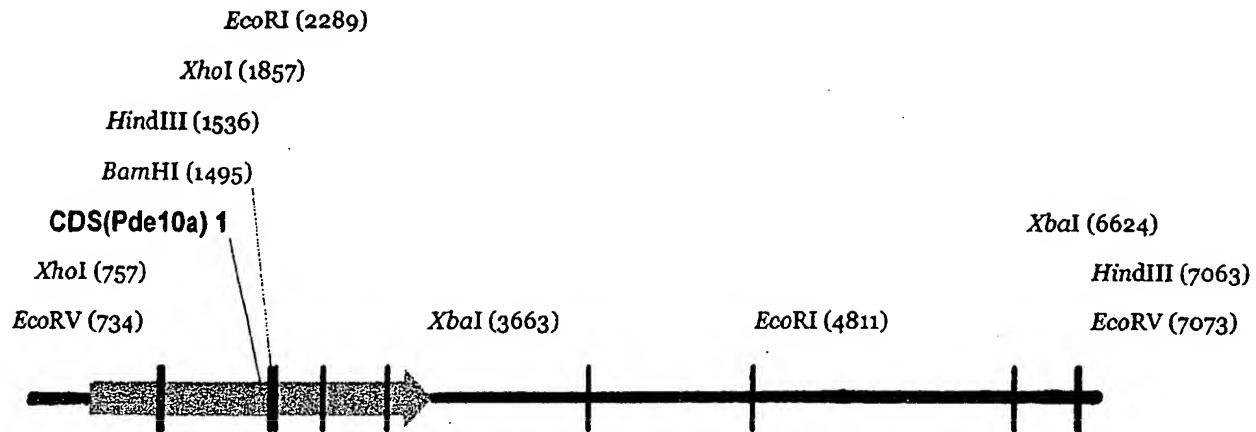


Figure 16

7581 bp

Figure 17

## PDE10A compiled - coding sequence and features

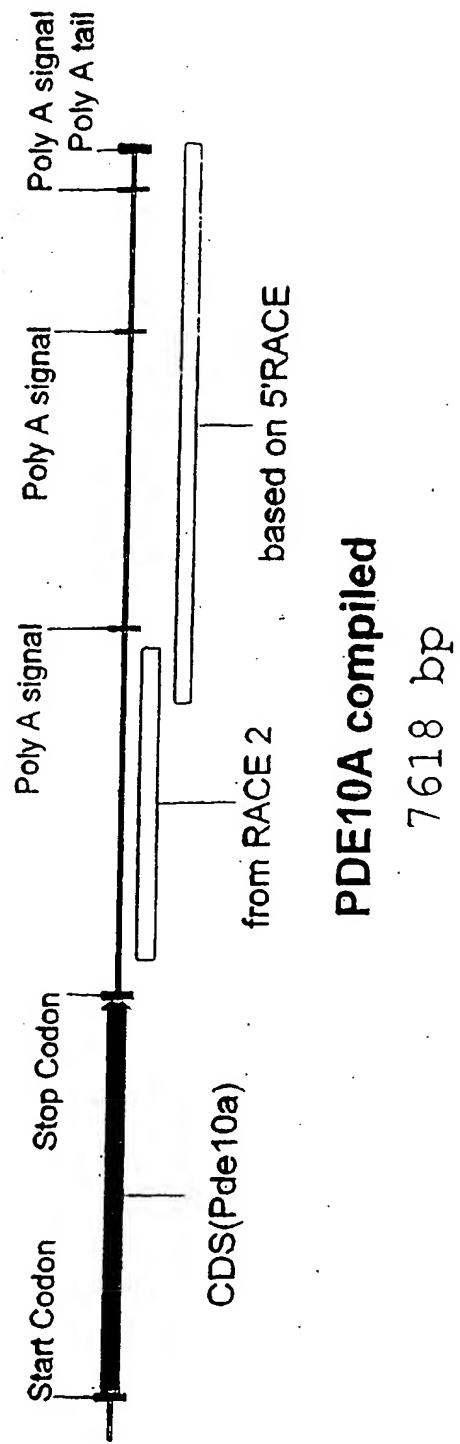


Figure 18

PDE10A compiled - restriction sites

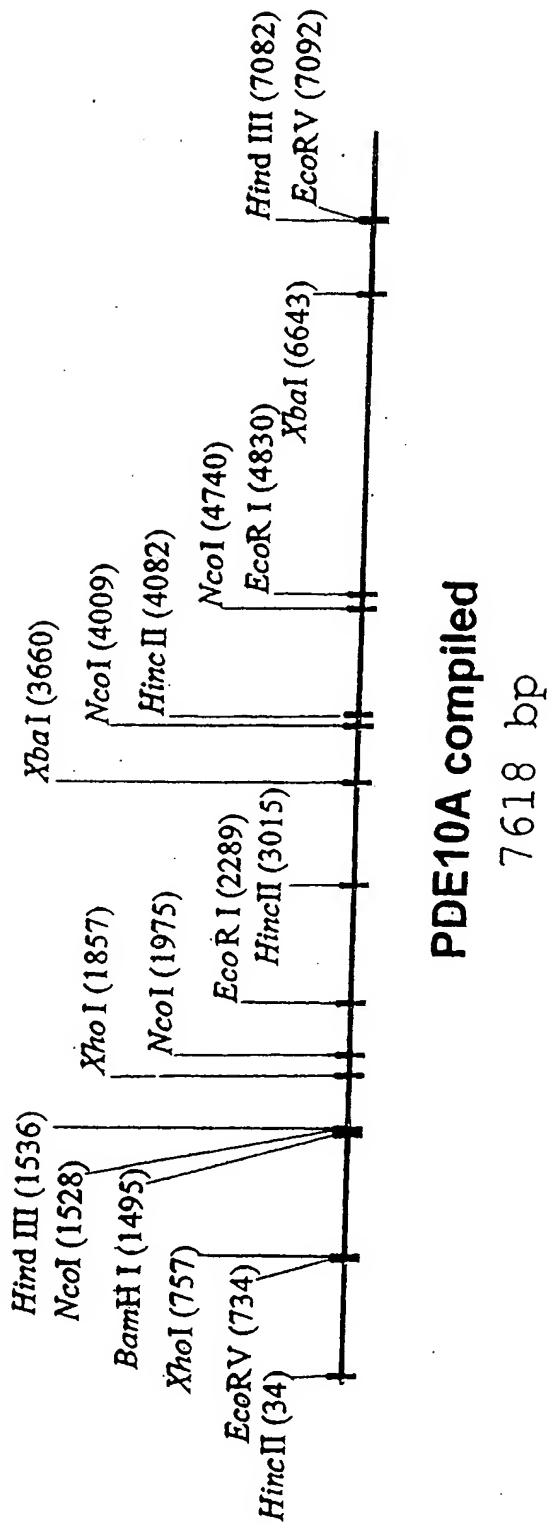


Figure 19

1	CGCCCGGGCA GGTCTGTGAGGGCAGTTG GTCAACCTGA CCAGAGAGAG CTGAGCTGGA GCGGGCCCGT CCAGACAACC TCCCGTCAAC CAGTTGGACT GGTCTCTCTC GACTCGACCT
61	AGACCCCAC TGTGGTGTGC TGCCCTTCAG TCCAGGAAGA AAGAAAGGAA GGATTCTGAG TCTGGGGTGA CTACCACACG ACGGAAAGTC AGGTCTTCT TTCTTCCCTT CCTAAGACTC
121	GATTGGGCA AAGCCACATT CCTGGAGAAG TCTGTATACT GATGCCAAC CCAAGAGCTG CTAAACCCGT TTCGGTGTAA GGACCTCTC AGACATATGA CTACGGTTG GGTTCTCGAC
181	AGCTGCTGAT GAGGCCAGG GAGTAGCCCA CGCGCCCTGA GCTGTTGGCT AGCAAGGCCT TCGACGACTA CTCCGGGTCC CTCATCGGGT GCGCGGGACT CGACAACCAGA TCGTTCCGGA
241	TCCTGCTCCA TGTGGCATGG AAAAATTATA TGTTTGACG GATGAAAAGG TGAAGGCCTA AGGACGAGGT ACACCGTAC TTTTTAATAT ACCAAACTGC CTACTTTCC ACTTCCGGAT
301	TCTTCTCTC CATCCCCAGG TATTAGATGA ATTTGTTTCT GAAAGTGTAA GTGCAGAGAC AGAAAGAGAG GTAGGGGTCC ATAATCTACT TAAACAAAGA CTTTCACAAT CACGTCTCTG
361	TGTGGAAAAG TGGCTGAAGA GGAAAACCAA CAAAGCAAA GATGAACCAT CTCCCAAGGA ACACCTTTTC ACCGACTTCT CCTTTGGTT GTTTCGTTT CTACTGGTA GAGGGTTCTT
421	AGTCAGCAGG TACCAAGGATA CGAATATGCA GGGAGTCGTG TACGAGCTGA ACAGCTACAT TCAGTCGTCC ATGGTCCTAT GCTTATACGT CCCTCAGCAC ATGCTCGACT TGTCGATGTA
481	AGAGCAGCGC CTGGACACGG GCGGGGACAA CCACCTGCTC CTCTATGAGC TCAGCAGCAT TCTCGTCGCG GACCTGTGCC CGCCCTGTT GGTGGACGAG GAGATACTCG AGTCGTCGTA
541	CATCAGGATA GCCACAAAAG CCGACGGATT TGCACTGTAC TTCCCTGGAG AGTGCAATAA GTAGTCCTAT CGGTGTTTC GGCTGCCTAA ACGTGACATG AAGGAACCTC TCACGTTATT
601	TAGCCTGTGT GTGTTCATAC CACCCGGGAT GAAGGAAGGC CAACCCCGGC TCATCCCTGC ATCGGACACA CACAAGTATG GTGGGCCCTA CTTCCCTCCG GTTGGGGCCG AGTAGGGACG
661	AGGGCCCACATC ACCCAGGGTA CCACCATCTC TGCCTACGTG GCCAAGTCTA GGAAGACGTT TCCC GGGTAG TGGGTCCCCTA GGTGGTAGAG ACGGATGCAC CGGTTCAGAT CCTTCTGCAA
721	GTTGGTAGAG GATATCCTG GGGATGAGCG ATTTCCTCGA GGTACTGGCC TGGAATCAGG CAACCATCTC CTATAGGAAC CCCTACTCGC TAAAGGAGCT CCATGACCGG ACCTTAGTCC
781	AACCCGCATC CAGTCTGTTC TTTGTTGCC CATTGTCACT GCCATGGAG ACTTGATTGG TTGGCGTAG GTCAGACAAAG AAACGAACGG GAAACAGTGA CGGTAACTCTC TGAACTAACC
841	CATCCTGAA CTGTACAGGC ACTGGGGCAA AGAGGCCTTC TGCCTCAGCC ATCAGGAGGT GTAGGAACCTT GACATGTCCG TGACCCCGTT TCTCCGGAAAG ACGGAGTCGG TAGTCCTCCA
901	TGCAACAGCC AATCTTGCTT GGGCTTCCGT AGCAATACAC CAGGTGCAGG TGTGTAGAGG ACGTTGTCGG TTAGAACGAA CCCGAAGGCA TCGTTATGTG GTCCACGTCC ACACATCTCC
961	TCTCGCCAAA CAGACCGAAC TGAATGACTT CCTACTCGAC GTATCAAAGA CATACTTTGA AGAGCGGTTT GTCTGGCTTG ACTTACTGAA GGATGAGCTG CATAGTTCT GTATGAAACT
1021	TAACATAGTT GCCATAGACT CTCTACTTGA ACACATCATG ATATATGCAA AAAATCTAGT ATTGTATCAA CGGTATCTGA GAGATGAACT TGTGTAGTAC TATATACGTT TTTTAGATCA
1081	GAACGCCGAC CGCTGCGCGC TCTTCCAGGT GGACCACAAG AACAAAGGAGC TGTACTCGGA CTTGGCGCTG GCGACGCGCG AGAAGGTCCA CTCGGTGTTC TTGTTCTCG ACATGAGCCT
1141	CCTGTTGAC ATTGGGGAGG AGAAGGAGGG GAAGGCCATC TTCAAGAAGA CCAAGGAGAT GGACAAACTG TAACCCCTCC TCTTCCCTCC CTTGGGTAG AAGTTCTTCT GTTCCCTCTA
1201	CAGATTTCC ATTGAGAAAG GGATTGCTGG TCAAGTGGCA AGAACAGGCG AAGTCTTGAA GTCTAAAAGG TAACTCTTTC CCTAACGACC AGTTCACCGT TCTTGTCCGC TTCAGAACTT

Figure 19 (cont.)

1261	CATTCCCGAT GCCTACCGCGG ACCCTCGCTT TAACAGGGAG GTGGACCTGT ACACAGGCTA GTAAGGGCTA CGGATGCGCC TGGGAGCGAA ATTGTCCCTC CACCTGGACA TGTGTCCGAT
1321	CACCACGGAGG AACATTCTGT GTATGCCAT AGTGAGCCGA GGCAGCGTGA TTGGCGTGGT GTGGTGCTCC TTGTAAGACA CATACTGGCT CCGTCGCACT AACCGCACCA
1381	GCAGATGGTG AACAAAGATCA GCGGTAGCGC CTTCTCCAAG ACAGACGAGA ACAACTCAA CGTCTACACAC TTGTTCTAGT CGCCATCGCG GAAGAGGTTG TGTCGCTCT TGTTGAAGTT
1441	GATGTTTGCT GTCTTCTGCG CACTGGCCTT GCACTGTGCT AACATGTACC ACAGGATCCG CTACAAACGA CAGAAGACGC GTGACCGGAA CGTGACACGA TTGTACATGG TGTCCTAGGC
1501	CCACTCAGAA TGCATCTACA GGGTTACCAT GGAGAAGCTT TCCTACCAC GCATCTGCAC GGTGAGTCTT ACGTAGATGT CCCAATGGTA CCTCTTCGAA AGGATGGTGT CGTAGACGTG
1561	CTCCGAGGAG TGGCAAGGCC TCATGCGCTT CAACCTACCA GCACGCATCT GCCGGGACAT GAGGCTCCCTC ACCGTTCCGG AGTACGCGAA GTTGGATGGT CGTGCCTAGA CGGCCCTGTA
1621	CGAGCTATTC CACTTGACA TTGGTCCCTT CGAGAACATG TGGCCTGGGA TCTTGTCTA GCTCGATAAG GTGAAACTGT AACCAAGGAAA GCTCTTGAC ACCGGACCT AGAAACAGAT
1681	CATGATCCAT CGGTCTTGTG GGACATCCTG TTTTGAACCT GAAAAATTGT GCCGTTTTAT GTACTAGGTA GCCAGAACAC CCTGTAGGAC AAAACTTGAA CTTTTAACAA CGGCAAAATA
1741	CATGTCTGTG AAGAAGAACT ATCGGGGGGT TCCTTACAC AACCTGGAAAGC ATGCAGTCAC GTACAGACAC TTCTTCTTGA TAGCCGCCCCA AGGAATGGTG TTGACCTTCG TACGTCACTG
1801	GGTGGCACAC TGCATGTATG CCATACTTCA AAACAACAAT GGCCCTTCA CAGACCTCGA CCACCGTGTG ACGTACATAC GGTATGAAGT TTTGTTGTTA CCGGAGAAGT GTCTGGAGCT
1861	GCGCAAAGGC CTGCTAAATTG CGTGTCTGTG CCATGACCTG GACCACAGGG GCTTCAGTAA CGCGTTCCG GACGATTAAC GCACAGACAC GGTACTGGAC CTGGTGTCCC CGAAGTCATT
1921	CAGCTACCTG CAGAAGTTCG ACCACCCCCCT GGCGGCGCTG TACTCCACCT CCACCATGGA GTCGATGGAC GTCTTCAAGC TGGTGGGGGA CCGCCGCGAC ATGAGGTGGA GGTGGTACCT
1981	GCAACACCCAC TTCTCCCAGA CGGTGTCCAT CCTTCAGCTG GAAGGGCACA ATATCTCTC CGTTGTGGTG AAGAGGGTCT GCCACAGGTAA GGAAGTCGAC CTTCCGTGT TATAGAAGAG
2041	CACCCGTGAGC TCCAGCGAGT ACGAGCAGGT GCTGGAGATC ATCCGAAAG CCATCATCGC GTGGGACTCG AGGTGCGTCA TGTCGTCCA CGACCTCTAG TAGGCCTTTC GGTAGTAGCG
2101	CACCGACCTC GCCCTATACT TTGGGAACAG GAAGCAGTTG GAGGAGATGT ACCAGACAGG GTGGCTGGAG CGGGATATGA AACCTTGTC CTTCGTCAAC CTCCTCTACA TGGTCTGTCC
2161	GTCGCTGAAC CTCCACAACC AGTCCCACATCG AGACCGTGTG ATCGGCTTGA TGATGACTGC CAGCGACTTG GAGGTGTGG TCAGGGTAGC TCTGGCACAG TAGCCGAACACT ACTACTGACG
2221	CTGTGATCTT TGCTCTGTGA CCAAACATATG GCCAGTTACA AAATTGACAG CGAATGATAT GACACTAGAA ACGAGACACT GGTTTGATAC CGGTCAATGT TTTAAGTGTGCT GCTTACTATA
2281	ATATGCAGAA TTCTGGGCTG AGGGTGTGAA GATGAAGAAG CTGGGCATAC AGCCCATTCC TATACGTCTT AAGACCCGAC TCCCACACT CTACTTCTTC GACCCGTATG TCGGGTAAGG
2341	TATGATGGAC AGAGACAAGC GAGATGAAGT CCCTCAAGGG CAGCTCGGAT TCTACAATGC ATACTACCTG TCTCTGTGCG CTCTACTTCA GGGAGTTCCC GTGAGCCATA AGATGTTACG
2401	TGTGGCCATT CCCTGCTATA CCACCTTGAC GCAGATCCTC CCACCCACAG AGCCTCTGCT ACACCGGTAA GGGACGATAT GGTGGAACGT CGTCTAGGAG GGTGGGTGTC TCGGAGACGA
2461	GAAGGCCTGC AGGGATAACC TCAATCAGTG GGAGAAGGTA ATTGCGGGG AAGAGACAGC CTTCCGGACG TCCCTATTGG AGTTAGTCAC CCTCTTCCAT TAAGCGCCCC TTCTCTGTGCG

Figure 19 (cont.)

2521	AATGTGGATT TCAGGCCAG GCCGGCGCC TAGCAAGAGC ACACCTGAGA AGCTGAACGT TTACACCTAA AGTCCGGTC CGGGCCGCGG ATCGTTCTG TGTTGACTCT TCGACTTGCA
2581	GAAGGTTGAA GACTGATCCT GAAAGTGACGT CCTGATGTCT GCCCAGCAAC CGACTCAACC CTTCCAACCTT CTGACTAGGA CTTCACTGCA GGACTACAGA CGGGTGTG TGCTGAGTTGG
2641	TGCTTCTGTG ACTTCGTTCT TTTGTTTC AAGGGGTGAA AACCCCTGT CAGAAGGTAC ACGAAGACAC TGAAGCAAGA AAAACAAAAG TTCCCCACTT TTGGGGGACA GTCTTCCATG
2701	CGTCGCATAT CCATGTGAAG CAGACGACTC CCTGCTTGCC GCACACACCT CGGACAGTGA GCAGCGTATA GGTACACTTC GTCTGCTGAG GGACGAACGG CGTGTGTGGA GCCTGTCACT
2761	GCAACCCAGG CTCTGCCGTG TTCAGACGTC GGCTACTCCG TGGCTCCACC TGACCTCCGA CGTTGGGTCC GAGACGGCAC AAGTCTGCAG CCGATGAGGC ACCGAGGTGG ACTGGAGGCT
2821	ATGCTATTTG CTCCCAGGCC AGCACTGCAC TGTCTGGAGG GGGCAGAGAC CACAGGAGAG TACGATAAAC GAGGGTCCGG TCGTGACGTG ACAGACCTCC CCCGTCCTCG GTGTCCCTC
2881	GTTCTTGCC GCATCCTCCC ATGAGGGTGT GGCCAGTCC CTAGTTCTGT GCCATGCTGC CAAGAACGGA CGTAGGAGGG TACTCCCACA CCGGTCAAGG GATCAAGACA CGGTACGACG
2941	TGCTTGGTGG CATTGGTTAG GAATGGGACA CACGCCCTT GTGTAAGT TTACATGTGA ACGAACCACC GTAACCAATC CTTACCCCTGT GTGCGGGGAA CAACACTTCA AATGTACACT
3001	CCTCTTATA GGTTAACTGA GTTGTGGCC TGGGACACAT GTAATGAAGG TCACAGTCCA GGAAGAATAT CCAATTGACT CAAACACCCG ACCCTGTGTA CATTACTTCC AGTGTCAAGGT
3061	CAGGTGACAG AGAAATCCAA ACTGTTGATT ACAGGTGCAC TACAGGTATG CTCTTCAGT GTCCACTGTC TCTTGTAGTT TGACAACCAA TGTCCACGTG ATGTCACATAC GAGAAAGTCA
3121	CTATCTGGGG GCACATAGGT GAGTCTGCTC CACTCAGAAG GAAGCATACC TCTSCCCTCA GATAGACCCC CGTGTATCCA CTCAGACGAG GTGAGTCTTC CTTCGTATGG AGASGGGAGT
3181	TCCAGGGGAC ACAGGGTACA TCCCAGGCAT CGGGGAACTG AAGCTCTCAC TTCAAACCAT AGGTCCCCTG TGTCCTCATGT AGGGTCCGTA GCCCCTTGAC TTCGAGAGTG AAGTTGGTA
3241	GTCAAAGAAT TAAAACACCT CCCCTCCCCC TCACTGTAGC CTTCGGCAAC TGCGCCAATC CAGTTTCTTA ATTTTGTGGA GGGGAGGGGG AGTGACATCG GAAGCCGTTG ACGCGGTTAG
3301	CCTTTATACA AAGAAAATAT AAGTAAGGCA TATAAATTTC CTCCAGCAAG CAAATCTTGT GGAAAATATGT TTCTTTATA TTCATTCCGT ATATTTAAAG GAGGTGTTTC GTTTAGAACAA
3361	GGGTAAAAAA AAAAAATGTG AATTTAACCA ACCTCTATAT TTTCACTGTA TGTTATGGCA CCCATTTTT TTTTTACAC TTAAAATTGT TGGAGATATA AAAGTGACAT ACAATACCGT
3421	GAATTTAGT CACGTCCAAA ACAAAAGATT ATTCCAGAAG ATACCTCATC CTATGCCTGA CTTAAATCA GTGCAGGTTT TGTTTCTAA TAAGGTCTTC TATGGAGTAG GATAACGGACT
3481	AAGCTCCACA GCATGGCGTC CGTCTCCAG GGTCTGATC CGTCTCCTCA CGGTGCAATC TTCGAGGTGT CGTACCGCAG GCAGAGGGTC CCAAGACTAG GCAGAGGAGT GCCACGTTAG
3541	AGGCAGGACA GGAGGAGGTG CAGGGCTACC ACATTGACCC AGATGGTATC TCCTCTCAC TCCGTCTGT CCTCCTCCAC GTCCCCATGG TGTAACTGGG TCTACCATAG AGGAGAGTGG
3601	ATTCAAGACAT CCATAAGGAA TGCCAAATGC TGTATTGAAT AGTTCTCCTG TGTGACTTTC TAAGTCTGTA GGTATTCCCT ACGGTTTACG ACATAACTTA TCAAGAGGAC ACACTGAAAG
3661	TAGAGAAGCC AGGACACCCC TGAGCCTTC CTGGGAACTC CTAAGGAAGT CACAGGTTCA ATCTCTCGG TCCTGTGGGG ACTCGGAAAG GACCCCTGAG GATTCTTCA GTGTCCAAGT
3721	CACCGTGGGG ATTTTCAGGA TAGCATGGAG ACCAGAGAAT CCCGGTTCGG TTGTTCTCAC GTGGCACCCCC TAAAAGTCCT ATCGTACCTC TGGTCTCTTA GGGCCAAGCC ACAAGAGTG

Figure 19 (cont.)

3781	TCGGTGAGCC TTGAGAAGGA AGAGACTGAC CAGAAACACT CACTCAGCAC TCTGGCAGGA AGCCACTCGG AACTCTTCTC TCTCTGACTG GTCTTGATGAGACCGTCCT
3841	GCAGGAGAAG ATACTTTAAG ATGAATCTT GGGATAGATT TTGATACACC CAATACCATA CGTCCTCTTC TATGAAATTC TACTTAGAAA CCCTATCTAA AACTATGTGG GTTATGGTAT
3901	CACACAGGAG CTTGGCATTT GCAAAGTCTA TTCAGTTCC TTCCACACTC TGACCCACGG GTGTGTCCTC GAACCGTAAA CGTTTCAGAT AAGTCAAAGG AAGGTGTGAG ACTGGGTGCC
3961	TTGTAGCGGA GTGGGCTGAA CACTGTAACA CTGTACATGC GATTCCCCA TGGGCTTCTA AACATCGCCT CACCCGACTT GTGACATTGT GACATGTACG CTAAGGGGT ACCCGAAGAT
4021	AAATGTCACC ATCTCCTCCC CTGCTGTGTC CTACTCCATT TACTGGTTAC AAGGTGTATGT TTTACAGTGG TAGAGGAGGG GACGACACAG GATGAGGTAATGACCAATG TTCCACTACA
4081	CAACAAGAGA AGCTATCACA ACACCAAGGGC TGTGCACACAG TGACACACACA TGTATGCACA GTTGTTCTCT TCGATAGTGT TGTGGTCCCG ACACGTGTGAC ACGTGTGTGT ACATACGTGT
4141	AGCACACAGA TGTATGTACA GCACACACAC ACACACACAC CCCAAAAGGA GAGAAAAGGA TCGTGTGTCT ACATACATGT CGTGTGTGT TGTGTGTGT GGGTTTCCT CTCTTTCTC
4201	AGAAAACATT TATAAAAAGC GACAGCTACC CCCATATTCA AAAATAGTTC TTTTCCCTGT TCTTTGTAA ATATTTTCG CTGTCGATGG GGGTATAAGT TTTTATCAAG AAAAGGGACA
4261	AGGGAAACAG GTAGCTCTCC ATAAGGAAAT TATCATGAGT GTGTTCTCCC ATCAGTGCAC TCCCTTGTC CATCGAGAGG TATTCTTTA ATAGTACTCA CACAAGAGGG TAGTCACGTG
4321	TTCTCCCAGG GGTGCTCACT GAAGCTGGTC CACGTCTATA AACAGGTGAC ACTGGCTGCA AAGAGGGTCC CCACGAGTGA CTTCGACCAG GTGCAGATAT TTGTCCTACTG TGACCGACGT
4381	GCAAAAAGCC ATTGATCCA CACAAATTGA TCTTCTATCA TCTTGAATC TGAATTGCAG CGTTTTTCGG TAAGCTAGGT GTGTTAACT AGAAGATAGT AGAACCTTAG ACTAACGTC
4441	GGAGGAGCAG CATGTAAGAC GACCGTTAA TTCAGGCATT CCGAAGGCAT GAGGCATAGG CCTCTCGTC GTACATTCTG CTGGCAAATT AAGTCCGTAA GGCTCCGTAA CTCGCGTACC
4501	ATTCTGTAC CAAGCGTATA AAAGGACCC GGCATTGGGA AACCTATGAC GGACTGTTT TAAGACAGTG GTTCGATAT TTTCCTGGGA CCGTAACCT TTGGATACTG CCTGACAAA
4561	TGCTGTAGAA GTAGGGATT TACAGAAGTC TCCTTGGATT TGCCCTGCCT GGGGCAGTTT ACGACATCTT CATCCCTAAA ATGTCCTCAG AGGAACCTAA ACAGGGACGGA CCCCGTCAAA
4621	TGCAGAGGAA CCTGCCAGAG ATTATTGGC TGGTCAGTCT CTTGTGAAAT AGTATCATGT ACGTCTCCTT GGACGGTCTC TAAATAACCG ACCAGTCAGA GAACACTTTA TCATAGTACA
4681	GAGAAACAGT TTGTAGAAAA AAACATATACC TGGGAAGACC TTTGCAACAT TGTTCCTTCC CTCTTGTC AACATCTTT TTGATATGG ACCCTCTGG AAACGTTGTA ACAAGGAAGG
4741	ATGGGCCAAG ACTCAGTTAG GAGGCATAAA TCTGCCCGGA ATAAACTAGG CCAGGATACA TACCCGGTTC TGAGTCAATC CTCCGTATTT AGACGGGCCT TATTGATCC GGTCTATGT
4801	GCCATGTTA GTTAATAATT TGGTTTAGA ATTACACACAG GCAGGATTGG TTTTTTG CGGTACAAAT CAATTATTA ACCAAAATCT TAAGTGTGTC CGTCCTAACCAACCAACAC
4861	TCTTGGCAAG TGGAGCATAT TTAACATACA GGCATGGGAA TCCTGCCTCT TAGCTTTCC AGAACCGTTC ACCTCGTATA AATTGTATGT CCGTACCCCT AGGACGGAGA ATCGAAAAGG
4921	CACCCCTTG TCTCACCAAG TTTTTCTCT CCAAAGGTTT CCAGGAATTTC CTCATTAATG GTGGGAGAAC AGAGTGGTTC AAAAAAGAGA GGTTTCCAAA GGTCTTAAA GAGTAATTAC
4981	GCTGATGCAA ACTTAGTGAA TAATAATGAA TATAAACAAAT GCTCACCTCA CCAAAATTAT CGACTACGTT TGAATCACTT ATTATTACTT ATATTGTTA CGAGTGGAGT GGTTTAATA

Figure 19 (cont.)

5041	ATTATTTGCA GTCATTTGTG ATAACACAAA TTTTATCGCA ATGGTTATTA TTTAATTGT TAATAAACGT CAGTAAACAC TATTGTGTT AAAATAGCGT TACCAATAAT AAATTAACAA
5101	GGCCACACAC TGTGGTTATC TTTTGTGTT GTTGTTCG AGAAAATGTT CTTGGATATG CCGGTGTGTG ACACCAATAG AAAACAACAC CAACAAAGAC TCTTTACAA GAACCTATAC
5161	TAAGTGCCTAA TACCAAGTGTG AAGTATTGAT CCCGGGCAGC AAAATACAGC CTAAGGTTG ATTACGGTT ATGGTCACAC TTCTAACTA GGGCCCGTCG TTTTATGTG GATTCCAAAC
5221	TAAACATCAA TTCTATCTCA GTTCATCAGA GGGCCTGAGA AGCTGCAGGG CAGTGTAAAG ATTGTAGTT AAGATAGAGT CAAGTAGTCT CCCGGACTCT TCGACGCC GTCACATTTC
5281	TAAAGTATGC TGGGCTGGTG GTGGTCAGCC TCCCCTTGCC AAGAAGAGAG CAATTGAATC ATTTCATACG ACCCGACCAC CACCAAGTCG AGGGGAACGG TTCTCTCTC GTTAACCTAG
5341	CTGTCCCCAG CTCCCTCCAC GCCTGAAGAG TGACCAGTGC TGGCCCGACG GATCGCTGAG GACAGGGGTC GAGGGAGGTG CGGACTTCTC ACTGGTCACG ACCGGGCTGC CTAGCGACTC
5401	ATATTCTCCC ATAATGGCAA AAAAATAGGC AGTTTGATGT GACCTGTTA GTGTGGCTCT TATAAGAGGG TATTACCGTT TTTTATCCG TCAAAACTACA CTGGACAAAT CACACCGAGA
5461	CCTCTTTGA GCATGTGTTA GCATTTTTAT TTTTAACTCA TCCAGTGAAC TCTGCTCTTC GGAGAAAAT CGTACACAAT CGTAAAAATA AAATATGAGT AGGTCACTTG AGACGAGAAG
5521	CAAGTGTGTT CATGTATGTG CTAGATATAT TAGCACAGCC TGCCCTCTGC TGCACAAACGC GTTCACACAA GTACATACAC GATCTATATA ATCGTGTCCG ACGGAAGACG ACGTGTTGCG
5581	CTTAGAGACC CGGCCTTCA ATGAGCTTAG CTTGTGCTCT GTTCTGCTC TCTTAGGTCT GAATCTCTGG GCCGGAAAGT TACTCGAAC TCAACACGAGA CAAAGACGAG AGAATCCAGA
5641	AAACTATGGT GTCAAGTTTA ATAGAACAAA AGTATGCATC TTGCGCTTGGC TTGAGCCTTT TTGATACCA CAGTAAAAT TATCTGTGTT TCATACGTAG AACGGAACCG AACTCGAAA
5701	TCGTTTCAA TGCTGACTTC TCCCCTTCT CTCCTGTGCT CACCTTACCT TTCCAGAGTG AGCAAAAGTT ACGACTGAAG AGGGGAAAGA GAGGACACGA GTGGAATGGA AAGGTCTCAC
5761	TAAGGGACAA CTTTTAAGGA GGCCTGTCCC TGGTAGGGGC ATCCCTGTT ACCAGGTGCC ATTCCCTGTT GAAAATCCT CCCCACAGGG ACCATCCCCG TAGGGACAAG TGGTCCACGG
5821	TGTCACTCACC CCACTTGACT GACATCTACC CTGGTGA CTA TGGGTTCCCTC TTGTTTGTAG ACAGTAGTGG GGTGAACCTGA CTGTAGATGG GACCACTGAT ACCCAAGGAG AACAAACATC
5881	GGAACGGTGG CTCCAGGTGG AGGCATCAAT CTGTTGGGTT CTGTTCCCG GCTGCCTTG CCTGCCACC GAGGTCCACC TCCGTAGTTA GACAACCCAA GACCAAGGGC CGACGGAAAC
5941	GTGTTGAAAG TCTCTCTCT GTATATTCCCT ACCCTGCATT TGCTTTGTG GGTGCTGATG CAAAACTTC AGAGAACAGA CATATAAGGA TGGGACGTAA ACGAACACAA CCACGACTAC
6001	CTGTGGCAGT AGGATCTTGG ATGACTCTCC ATCAGTCACA GACTCCCCCT GTGCAAAGT GACACCGTCA TCCTAGAAC TACTGAGAGG TAGTCAGTGT CTGAGGGGG CAACGTTCA
6061	GTCAGGCTGA CTCGACAGTC ACCGTAAAAT CTGAGTCAGT CACACACAGG CTGTCAAGCCA CAGTCCGACT GAGCTGTCA GGGCATTGTTA GACTCACTCA GTGTTGTC GACAGTCGGT
6121	CGGCTTCCAC TTGCATGGCT ATTCTATTTT CACACGTGAG TTTCTGTG TGGCTGGCTG GCCGAAGGTG AACGTACCGA TAAGATAAAA GTGTGCACTC AAAGACAACG ACCGACCGAC
6181	ACTGGCATTAA TCTATGCTAA GTGAAATCA GGAGTGTGCC CAGCAGAGCC CATCATTCTC TGACCGTAAT AGATACGATT CAACTTTAGT CCTCACACGG GTCGTCTCGG GTAGTAAGAG
6241	ACTGTCTTG AAACAAAGCT GTACGGTTG ATCGATGAAC GTATTTAAAG CATTTCATGC TGACAGAAAC TTTGTTCGA CATGCCAAAC TAGCTACTTG CATAAATTTC GTAAAGTACG

Figure 19 (cont.)

6301	AATGACAAAG TGCTCAGTAG TGGAAGGCAG GCTGTGACCA GTCTGCCTGC TCCTTACTAT TTACTGTTTC ACGAGTCATC ACCTTCCGTC CGACACTGGT CAGACGGACG AGGAATGATA
6361	AATTGTGAGG ATTTGTTACT GGAACAGTAC ATGGAGGCCT GACCTTGTGG GGGCACAGGG TTAACACTCC TAAACAATGA CCTTGTCATG TACCTCCGGA CTGGAACACC CCCGTGTCCC
6421	TGGAACCTTA GCTGAATATA GTGTGTGTCT CAAGAGGAAG TCAGGGTACT AGCTCAGTGC ACCTTGGAAAT CGACTTATAT CACACACAGA GTTCTCCTTC AGTCCCATGA TCGAGTCACG
6481	TCAATCTCCA GGTACTATAT ATACATTGTC CGTTTTATC TCTAATGTGA AATAAATCCC AGTAGAGGT CCATGATATA TATGTAAACG GGCAAAATAG AGATACACT TTATTTAGGG
6541	CAAACACTTG TTTATCGTGT AGCGTACCTA AAAGACTATT CTATTATGGG TGCCCCACT GTTTGTGAAC AAATAGCACA TCGCATGGAT TTTCTGATAA GATAATAACCC ACAGGGGTGA
6601	TTCTTGGTTT GGTCACCCCCG ATCCCCCGGT CTTCTGCTGT ATCTAGAACAA GTGACTATAA AAGAACAAA CCAGTGGGGC TAGGGGGCCA GAAGACGACA TAGATCTTGT CACTGATATT
6661	ATGATGTATG GGAATAGTGT TTCCATATGA TCTGTTGTCT GGAGTATATG CTACATGTT TACTACATAC CCTTATCACA AAGGTATACT AGACAACAGA CCTCATATAC GATGTACAAG
6721	ATTACTGTA CAAAAACCCA GTGCAGCTGA TGATGCAAAG CAGTCTCTCT CTGTGTACAG TAAATGACAT GTTTTGGGT CACGTCGACT ACTACGTTTC GTCAGAGAGA GACACATGTC
6781	TGCCCCACCT ATTTAAAAAT CACGTACAAN CCCAGAACAC TGAAACAC TTAACATAAG ACGGGGTGGG TAAATTTTA GTGCATGTTN GGGTCTTGTG ACACTTTGTG AATTGTATTG
6841	AAACAAACGC AGCGTCTGGA TTCTTCCAA GGAGAGCAGC TTTCTCCACA GGAACACAGT TTTGTGCG TCGCAGACCT AAGAAAGGT CCTCTCGTCG AAAGAGGTGT CCTGTGTCA
6901	AAACAAAGAG GTCCGCCGCC ATCCACACCC AGCCAAGACA CCTCAGAGGC CATAGGGACA TTGTTTCTC CAGGGCGCGG TAGGTGTGGG TCGGTTCTGT GGAGTCTCCG GTATCCCTGT
6961	ACCTCCTTGC TGGCCAAACAC CTGCTGGAGC AGGGCACAGG TCCCAGCAAC TGATCCTCAG TGGAGGAACG ACCGGTTGTG GACGACCTCG TCCCCTGTC AGGGTCGTTG ACTAGGAGTC
7021	TGGATGGTC CGCAGTCAAA GCCTTAATGG GCTCTCTTT GAAGGGGAAA GAAANNTTC ACCTACCCAG GCGTCAGTTT CGGAATTACC CGAGAGAAAA CTTCCCTTT CTTNNAAAG
7081	AAGCTTATGA TATCCAACAT TATTATAGTT GATGAGTTAG TAAATTCCGA AAAAAAAAGA TTCAATACT ATAGGTGTA ATAATATCAA CTACTCAATC ATTTAAGGCT TTTTTTTCT
7141	TGATTTATA TGATGACAT AAAAAAAATC TTTGAAAGT GCGCAAGTGC AATAATTAA ACTAAAATAT ACATACTGTA TTTTTTTAG AACATTCA CGCGTTCACG TTATTAATT
7201	AGAGGTCTTA TCTTGCATT TATAAATTAT AAATATTGTA CATGTGTGTA ATTTTCATG TCTCCAGAAT AGAAACGTAATATTAATA TTTATAACAT GTACACACAT TAAAAGTAC
7261	TATTCAATTG CAGTCTTGT ATTTAAAAAA ACTTTACTGT TATGTTGTAA TATAGAACAA ATAAGTAAAC GTCAGAAACA TAAATTTTT TGAAATGACA ATACAAACAT ATTATCTTGT
7321	TTAATCATT ATTATAACTC AGACAAGGTG TAAATAAATT CATAATTCAA ACAGCCAGTA AATTAGTAA TAATATTGAG TCTGTTCCAC ATTTATTAA GTATTAAGTT TGTCGGTCAT
7381	TATATGCATA TATGGGTGTT ACATTGCAAA AATCTCTATC TTTGTTCTAT TCACATGCTT ATATACGTAT ATACCCACAA TGAAACGTTT TTAGAGATAG AAACAAGATA AGTGTACGAA
7441	AAAGAAGTAA GAAATCTTT GTGGATATGT AATTATACAT ATAAAGTATA TATATATGTA TTTCTTCATT CTTAGAAAAA CACCTATACA TTAATATGTA TATTTCATAT ATATATACAT
7501	TGATACATGA AATATATTAA GAAATGTTCA TAATTTAAT GGATATTCTT TGGTGTGAAT ACTATGTACT TTATATAAAT CTTACAAGT ATTAATTA CCTATAAGAA ACCACACTTA

**Figure 19 (cont.)**

7561 AATTGAATAC AACATTTTA AAATGAAAAA AAAAAAAA AAAAAAAA AAAAAAAA  
TTAACCTTATG TTGTAAAAAT TTTACTTTTT TTTTTTTTTT TTTTTTTTT

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